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REMOVAL SUPPORT TEAM 3
EPA CONTRACT EP-S2-14-01

March 11, 2016

Mr. David Rosoff, On-Scene Coordinator
U.S. Environmental Protection Agency
Removal Action Branch
2890 Woodbridge Avenue
Edison, NJ 08837

EPA CONTRACT No.: EP-S2-14-01

TDD No.: TO-0006-0029

DOCUMENT CONTROL No.: RST3-02-F-0098

**SUBJECT: FINAL SOIL SAMPLING TRIP REPORT – LUMEN BEARING COMPANY
OFFSITE ASSESSMENT, BUFFALO, ERIE COUNTY, NEW YORK**

Dear Mrs. Rosoff,

Enclosed please find the Final Soil Sampling Trip Report for the soil sampling events conducted on June 30, 2015 through July 9, 2015 at properties surrounding the Lumen Bearing Company Site located in Buffalo, Erie County, New York.

If you have any questions or comments, please contact me at (603) 512-4350.

Sincerely,

WESTON SOLUTIONS, INC

Peter Lisichenko
RST 3 Site Project Manager/Group Leader

Enclosure

cc: TDD File No.: TO-0006-0029

an employee-owned company

In association with Scientific and Environmental Associates, Inc.,
Environmental Compliance Consultants, Inc., Avatar Environmental, LLC,
On-Site Environmental, Inc., and Sovereign Consulting, Inc.



FINAL SOIL SAMPLING TRIP REPORT

Site Name: Lumen Bearing Company Offsite Assessment
DC No.: RST3-02-F-0098
TDD No.: TO-0006-0029
Sampling Dates: June 30, 2015 through July 9, 2015
CERCLIS ID: NYN000206591
EPA ID: A24S

1. Site Location: 197 Lathrop Street
Buffalo, Erie County, New York
(Refer to Attachment A, Figure 1: Site Location Map)

2. Sample Summary:

As part of the Removal Assessment at the Lumen Bearing Company Offsite (the Site), Weston Solutions, Inc., Removal Support Team 3 (RST 3) collected 189 soil samples (181 composite and eight grab samples), including nine field duplicates, from 20 properties located along Lathrop Street, Kosciuszko Street, Harmonia Street, Howlett Street, Gittere Street, and Sycamore Street. For privacy reasons, the names and addresses of the surrounding properties will not appear within this report. Instead the properties were assigned unique identifier numbers – P0001 through P0020. In addition, four rinsate samples were collected on days in which non-dedicated equipment were utilized for sampling. All samples were submitted to U.S. Environmental Protection Agency (EPA) Contract Laboratory Program (CLP) laboratory ChemTech Consulting Group, Mountain Side, New Jersey for target analyte list (TAL) metals, plus tin, analysis.

3. Laboratory Receiving Samples:

The following laboratory was utilized during the June and July 2015 soil sampling event:

Sample Matrix	Analysis	Laboratory
Soil	TAL Metals + Tin	EPA CLP Laboratory ChemTech Consulting Group 284 Sheffield Street Mountainside, New Jersey 07092
Rinsate Blank		

EPA - U.S. Environmental Protection Agency
CLP - Contract Laboratory Program

TAL - Target Analyte List

4. Sample Dispatch Data:

On July 2, 2015, RST 3 hand-delivered 130 soil samples, including six field duplicates and two rinsate blank samples, to ChemTech Consulting Group for TAL metals, plus tin, analysis under the following Chain of Custody (COC) Record Numbers (Nos.) 2-063015-075700-0001, 2-063015-101326-0002, 2-063015-113919-0003, 2-063015-122020-0004, 2-063015-134616-0005, 2-063015-143041-0006, 2-063015-161229-0007, 2-063015-180135-0008, 2-063015-180140-0009, 2-063015-180229-0010, 2-063015-194953-0011, 2-070115-084650-0012, 2-070115-093145-0013, 2-070115-104039-0014, 2-070115-

115802-0015, 2-070115-125853-0016, 2-070115-161610-0017, 2-070115-161710-0018, and 2-070115-171141-0019.

On July 10, 2015, RST 3 hand-delivered 59 soil samples, including three field duplicates and two rinsate blank samples, to ChemTech Consulting Group for TAL metals, plus tin, analysis under COC Record Nos. 2-070915-111836-0020 and 2-070915-113001-0021.

Refer to Attachment C: Chain of Custody Records.

5. On-Site Personnel:

Name	Representing	Duties On-Site
David Rosoff	EPA, Region II	On-Scene Coordinator
Mark Bellis	EPA, Region II	On-Scene Coordinator
Peter Lisichenko	RST 3	Site Project Manager, Site Health & Safety, Sample Collection, Site QA/QC
Michael Beuthe	RST 3	Sample Collection
Robert Croskey	RST 3	Sample Collection
Michael Garibaldi	RST 3	Sample Collection
Karla Guerrero	RST 3	Sample Collection
Bernard Nwosu	RST 3	Sample Management

6. Site Background and Description

The EPA, Region II Removal Action Branch (RAB) is conducting an off-site Removal Assessment of the Lumen Bearing Company Site, a potential historic lead smelter facility which was referred to EPA between 2012 and 2014 by the New York State Department of Environmental Conservation (NYSDEC) along with 39 other potential historic lead smelter sites. The Lumen Bearing Company Site was included on a list of hundreds of locations nationwide where secondary lead smelting or alloying may have been conducted between 1931 and 1964, according to entries in historical trade publications. The list was originally compiled by William P. Eckel in a doctoral dissertation for George Mason University, and the research was summarized in the article “Discovering Unrecognized Lead-Smelting Sites by Historical Methods,” (Eckel et al., 2001).

Based on EPA's review of additional historical documents including city directories, aerial photographs, and Sanborn® (Sanborn) fire insurance maps, as well as an evaluation of current circumstances, EPA initiated an investigation at the Lumen Bearing Company Site in October and November 2014. EPA collected soil samples from the Lumen Bearing Company Site and analyzed them for TAL metals, including tin. Four locations were sampled from within the property, including the former footprint of the building structure. Lead ranged from 34 parts per million (ppm) to 7,800 ppm in the top inch of soil, and concentrations as high as 20,000 ppm were detected in the intervals from 1 inch to 18 inches below ground surface (bgs). On April 13 and 14, 2015, approximately 90 field screen soil samples were collected from the top 1 inch and 1-6

inch depth intervals and analyzed with an *X-ray fluorescence* (XRF) instrument. The field screening results indicated high concentrations of lead in surface soil.

Between 2001 and 2012 (the exact date is unknown), all of the above ground building structures on the Lumen Bearing Company Site were demolished by the City of Buffalo, New York. Roughly half of the current lot area is bare soil and gravel, and the other half is covered by grass. Located on the southern portion of the property are small trees and brush. There is evidence of ponding water at the Lumen Bearing Company Site and possible runoff of surface water leaving the property. Surface water travels via curb and gutter along the roadway and onwards to the combined sewer system that is treated and eventually discharged into the Niagara River. There is evidence of an unknown soil staining (possible oil spill or underground tank) located in the center of the property. The Lumen Bearing Company Site is bounded by Sycamore Street on the North, Lathrop Street on the West, and occupied residential property at 137 Lathrop Street to the south. The East side of the property is an elevated berm with two active rail road tracks located on top of the berm. There are three elementary schools located within 3,000 feet of the property. Occupied residential homes are directly adjacent to the Lumen Bearing Company Site and several are located across Lathrop Street adjacent to the property. The property is owned by the City of Buffalo and was taken for back taxes.

7. Sample Methodology

Prior to mobilization to the Site, a utility mark-out request was submitted to the New York 811 System to identify subsurface utilities within the investigation area. A total of 20 properties were identified for sampling within the vicinity of the Site. Their selection was mostly governed on their proximity to the Lumen Bearing Company Site, and the ability to contact the property owners, or tenants, to obtain permission to sample. Each residential property was divided into two quadrants (front and backyard areas). When the size of available grass/soil area within a property was minimal, only one quadrant was collected. For each quadrant, five sample locations were identified by the EPA On-Scene Coordinator (OSC). At each location, an aliquot of soil would be collected from the 0-1, 1-6, 6-12, and 12-24 inch bgs depth interval. The aliquots for a particular depth range were composited, homogenized, and placed in 8-ounce glass jars in preparation of the sample to be submitted for TAL metals analysis, including tin. A 14 acre public park located to the east of the Site had a modified sampling approach, and was divided into 14 quadrants, with five sample locations per quadrants, and composite samples collected from the depth ranges as indicated above. Another property with a modified sampling approach was a historic church to the southwest of the Site. At this property, two sample locations were established to collect individual grab samples for the intervals described above.

Extraction of the samples was completed by either manual excavation (via spade shovel) or with the use of hand-augers. For the manual excavation method, small holes were hand excavated to a depth of 2 feet bgs using a spade shovel. In grassy areas, the sod matting was cut away and placed to the side for reuse. Excavated material was placed on polyethylene sheeting for use as backfill at the completion of sampling. Using the handle of a dedicated plastic 4-ounce scoop, a fresh surface was scraped along the excavation sidewall. Using the cup portion of the scoop, a small aliquot of soil was extracted from

the sidewall and placed in a 10 x 12 polyethylene plastic bag for that particular depth interval. Each bag was marked with its property identification number and depth interval. Samples were collected so that the deepest sample was collected first and in reverse sequence to the surface sample to avoid cross contamination from the upper soil horizons. In areas with grass cover, aliquots were extracted from directly below the sod matting. Shovels were decontaminated between sampling locations using an Alconox®-based solution and water to remove dirt and debris. Fresh Nitrile gloves were donned for each sample collected.

For the hand-auger method, a spade shovel was used to break the sod matting in grass covered areas and to excavate to a depth of 6 inches bgs. Using the handle of dedicated 4-ounce scoops to expose fresh surfaces, the surface sample was extracted from directly below the sod matting and the 1 to 6 inch interval was extracted from the sidewall. Hand augers were then advanced in 6 inch intervals and the contents of the auger buckets were extracted directly into 10 x 12 polyethylene bags per depth interval. For the 12 to 24 interval, two advances were made with the auger, and the contents of both buckets were placed into the polyethylene bag. The spade shovel was decontaminated (as described above) between each location and the hand-auger was washed and cleaned between each sampling interval. Fresh Nitrile gloves were donned for each sample collected.

The contents of each bagged interval were homogenized with a representative fraction extracted, and combined with fractions from the same quadrant and depth intervals for the composite sample. Once the samples within the polyethylene bag were properly homogenized and rocks and debris removed, the samples were transferred to 8-ounce glass jars for submission to an EPA CLP laboratory for TAL metals and tin analysis. Quality control samples were collected at a rate of 1 per 20 field samples, and included both field duplicates and matrix spike/matrix spike duplicates (MS/MSD). All sampling information was entered into the EPA SCRIBE environmental data management system from which glassware labels and COC forms were generated.


Samples were packaged in accordance with CLP procedures and hand-delivered to the CLP laboratory ChemTech Consulting Group, Inc. in Mountainside, New Jersey in accordance with sample custody procedures.

8. Analytical Discussion

The validated analytical results for soil samples collected from the 20 properties were compared to the EPA Removal Management Levels (RMLs) for Residential Soil and NYSDEC Residential Soil Cleanup Objectives (SCOs). Of the 20 properties, 19 contained samples that exceeded the federal and state criteria for lead (primary contaminant of concern) of 400 milligrams per kilogram (mg/kg). For the project area, the concentrations of lead ranged from 21.8 mg/kg to 5,420 mg/kg with an average of 566 mg/kg. For the residential properties (non-vacant lots) the concentrations of lead ranged from 21.8 mg/kg to 4,450 mg/kg. Exceedances were identified in all sample depth ranges for all residential properties.

See Attachment A: Figure 2, Validated Lead Results for the figure depicting all results for all samples collected; Attachment B: Table 1a and Table 1b: Validated Analytical Data Summary for TAL Metals and Tin; and Attachment D: Photographic Documentation Log.

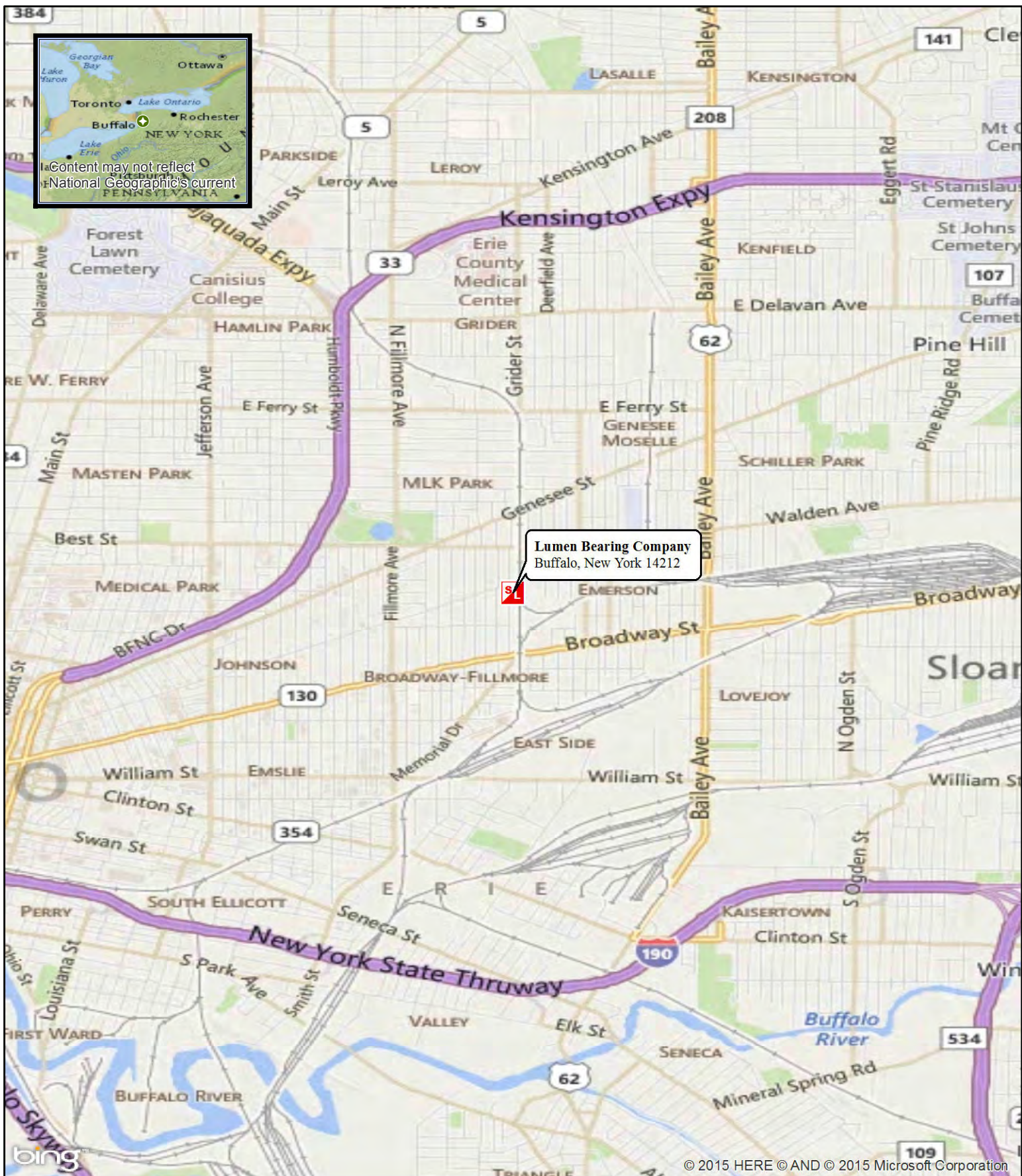

Report Prepared by: _____ Date: 3/11/2016
Peter Lisichenko
RST 3 Site Project Manager/Group Leader


Report Reviewed by: _____ Date: 3/11/2016
Timothy Benton
RST 3 Operations Lead

ATTACHMENT A

Figure 1: Site Location Map

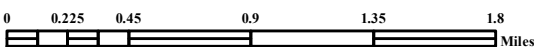
Figure 2: Validated Lead Results



Legend



Site Location



Weston Solutions, Inc.
East Division

In Association With
Scientific and Environmental Associates, Inc.,
Environmental Compliance Consultants, Inc.,
Avatar Environmental, LLC, On-Site Environmental,
Inc. and Sovereign Consulting, Inc

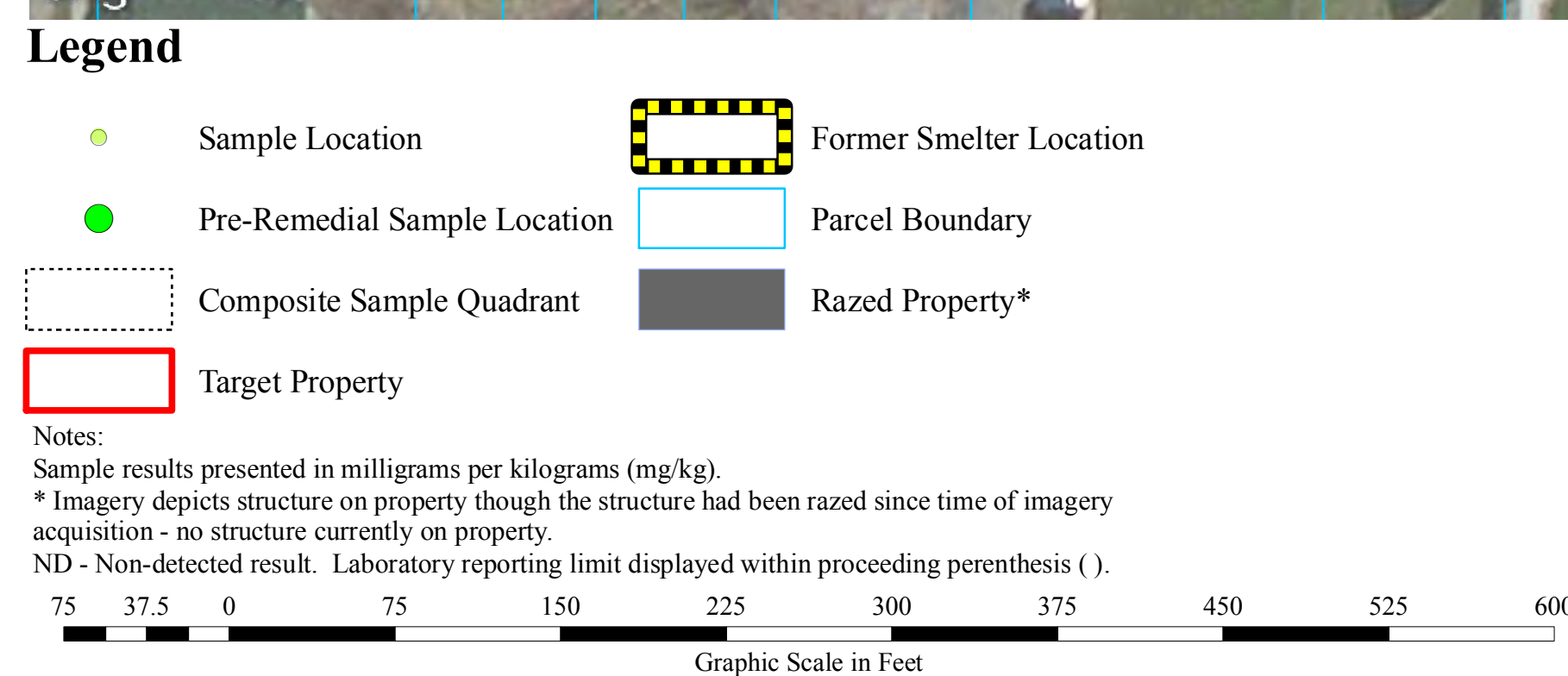
Figure 1: Site Location Map

Lumen Bearing Company

Buffalo, New York

U.S. ENVIRONMENTAL PROTECTION AGENCY
REMOVAL SUPPORT TEAM 3
CONTRACT # EP-S2-14-01

DATE MODIFIED: 6/19/2015	GIS ANALYST: P. Lisichenko
	EPA OSC: K. Glenn
	RST SPM: P. Lisichenko
	FILENAME: SITE LOCATION MAP.MXD

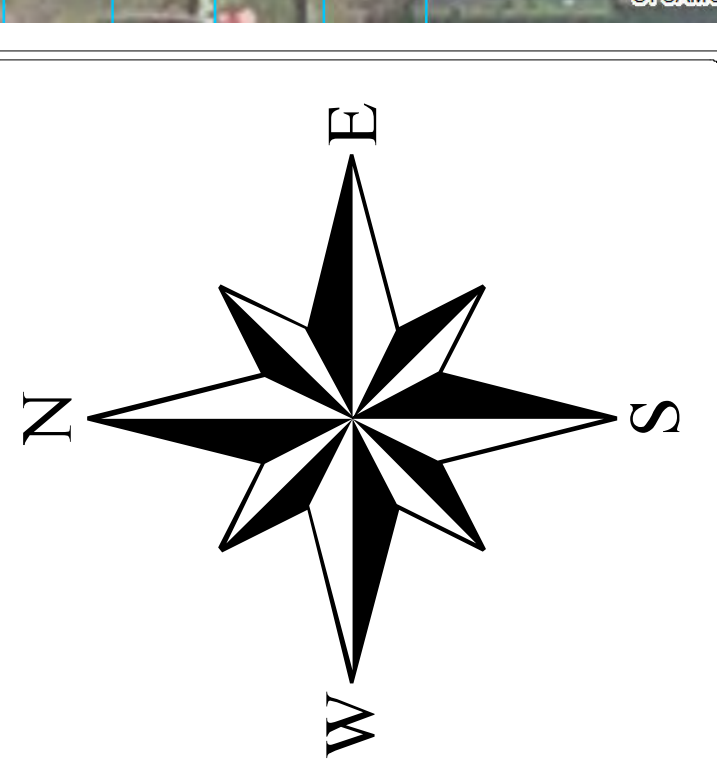


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REMOVAL SUPPORT TEAM 3

In association with:
Scientific and Environmental Associates, Inc.
Avata Environmental, LLC, Environmental Compliance Consultants,
On-Site Environmental, Inc. and Sovereign Consulting, Inc.



REPORT DATE: FEBRUARY 2015	EPA OSC: D. ROSSOFF / M. BELLIS	CLIENT NAME: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY	DRAWING TITLE: VALIDATED LEAD RESULTS
DRAWING: 151104_Lumen.cadResults.mxd	RST SPM: P. LISICHENKO	PROJECT NAME: LUMEN BEARING COMPANY OFFSITE ASSESSMENT BUFFALO, NEW YORK	FIGURE: 2
REVISION No. 4	CONTRACT No. EP-S2-14-01	DATE CREATED: 10/08/2015	SCALE: 1:900
WORK ORDER No. 30400.021.006.2029	GIS ANALYST: P. LISICHENKO		DATE: 11/4/2015

ATTACHMENT B

Table 1a: Validated Analytical Data Summary – TAL Metals + Tin

Table 1b: Validated Analytical Data Summary – TAL Metals + Tin

Table 1a: Validated Analytical Data Summary - TAL Metals
Lumen Bearing Offsite Assessment
June 30 to July 9, 2015

RST 3 Sample ID	EPA RMLs for Residential Soil ¹	NYSDEC Remedial Program SCO for Residential Soil ²	P0001-SS01-0001-01	P0001-SS01-0106-01	P0001-SS01-0612-01	P0001-SS01-1224-01	P0002-SS01-0001-01	P0002-SS01-0106-01	P0002-SS01-0612-01	P0002-SS01-1224-01	P0002-SS02-0001-01	P0002-SS02-0106-01	P0002-SS02-0106-02
CLP Sample ID			MBCSF0	MBCSF1	MBCSF2	MBCSF3	MBCSF9	MBCSG0	MBCSG1	MBCSG2	MBCSF4	MBCSF5	MBCSF6
Sampling Date			6/30/2015	6/30/2015	6/30/2015	6/30/2015	6/30/2015	6/30/2015	6/30/2015	6/30/2015	6/30/2015	6/30/2015	6/30/2015
Sample Depth (in)			0-1	1-6	6-12	12-24	0-1	1-6	6-12	12-24	0-1	1-6	1-6
Sample Matrix			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Aluminum	230,000	NS	8,770	9,070	11,000	14,000	10,900	12,800	13,700	9,380	11,700	11,000	10,800
Antimony	94	NS	1.1 J	1.5 J	0.84 J	0.93 J	0.75 J	0.83 J	5.1 U	0.82 J	6.1 U	0.76 J	5.9 U
Arsenic	67	16	15.1	19.8	17.2	12.4	7.1	5.6	5.8	6.7	16.3	17.5	24.3
Barium	46,000	350	280	354	339	176	137	93.2	121	112	251	231	292
Beryllium	470	14	0.66	0.65	0.74	0.73	0.54	0.5	0.61	0.44 J	0.69	0.66	0.74
Cadmium	210	2.5	2.7	3.0	1.7	0.83	0.98	0.56	0.58	0.98	1.5	1.4	1.5
Calcium	NS	NS	12,000	10,400	12,500	12,500	32,100	43,000	15,000	66,200	22,900	21,000	15,400
Chromium	NS*	NS**	26.5	27.4	27.9	21.0	18.7	17.5	19.7	15.3	23.0	20.7	21.0
Cobalt	70	NS	2.0 J	3.8 J	3.4 J	3.7 J	5.1	5.0	5.7	3.1 J	5.1 J	4.5 J	3.6 J
Copper	9,400	270	278	379	172	72.9	56.0	22.0	27.1	63.7	107	88.1	115
Iron	160,000	NS	23,000	27,400	21,400	26,200	21,100	21,400	24,400	18,600	24,100	22,400	22,700
Lead	400	400	1,120	1,350	902	237	418	82.2	97.5	301	565	478	1,070
Magnesium	NS	NS	3,590	3,520	3,990	4,510	11,300	15,100	7,570	4,860	7,450	7,360	5,540
Manganese	5,500	2,000	370	534	372	381	395	399	344	255	429	409	372
Nickel	4,600	140	23.4	27.4	20.2	21.2	23.6	20.8	24.8	15.7	24.1	28.0	21.3
Selenium	1,200	36	4.35 U	3.45 U	3.45 U	3.69 U	3.27 U	2.94 U	3 U	3.06 U	3.56 U	3.37 U	3.42 U
Silver	1,200	36	0.53 J	0.46 J	0.29 J	0.13 J	0.076 J	0.84 U	0.078 J	0.074 J	0.23 J	0.23 J	0.26 J
Sodium	NS	NS	168 J	202 J	595	166 J	159 J	205 J	160 J	113 J	172 J	190 J	292 J
Thallium	2.3	NS	3.1 U	2.8 U	2.5 U	2.6 U	2.3 U	2.1 U	2.1 U	2.2 U	2.5 U	2.4 U	2.4 U
Vanadium	1,200	NS	25.9	28.4	29	32.9	23.3	26.7	27.3	23.0	29.8	27.5	28.9
Zinc	70,000	2,200	956	834	593	257	97.4	97.4	118	258	468	402	482
Potassium	NS	NS	1,010	820	1,180	1,460	1,860	1,910	1,590	814	1,830	1,590	1,480
Tin	NS	NS	31.5	58.8	21.2	8.2	7.6	1.8 J	2.7 J	8.2	14.1	37.4	83.5

RST 3 Sample ID	EPA RMLs for Residential Soil ¹	NYSDEC Remedial Program SCO for Residential Soil ²	P0002-SS02-0612-01	P0002-SS02-1224-01	P0003-SS01-0001-01	P0003-SS01-0106-01	P0003-SS01-0612-01	P0003-SS01-1224-01	P0003-SS02-0001-01	P0003-SS02-0106-01	P0003-SS02-0612-01	P0003-SS02-1224-01	P0003-SS02-1224-02
CLP Sample ID			MBCSF7	MBCSF8	MBCSG3	MBCSG4	MBCSG5	MBCSG6	MBCSG7	MBCSG8	MBCSG9	MBCSH0	MBCSH1
Sampling Date			6/30/2015	6/30/2015	6/30/2015	6/30/2015	6/30/2015	6/30/2015	6/30/2015	6/30/2015	6/30/2015	6/30/2015	6/30/2015
Sample Depth (in)			6-12	12-24	0-1	1-6	6-12	12-24	0-1	1-6	6-12	12-24	12-24
Sample Matrix			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Aluminum	230,000	NS	10,500	10,400	8,590	9,860	11,900	15,600	8,570	9,220	12,600	18,100	17,100
Antimony	94	NS	1.0 J	1.1 J	5.5 U	1.5 J	0.56 J	0.5 J	1.1 J	1.5 J	1.6 J	0.83 J	5.9 U
Arsenic	67	16	20.4	15.0	21.0	19.0	9.7	6.1	15.4	15.7	13.1	7.7	7.0
Barium	46,000	350	339	310	362	353	224	142	290	248	311	150	146
Beryllium	470	14	0.75	0.63	0.59	0.62	0.58	0.62	0.62	0.61	0.67	0.75	0.76
Cadmium	210	2.5	1.4	1.7	3.1	3.6	1.1	0.65	4.4	3.0	1.3	2.7	1.9
Calcium	NS	NS	21,000	46,800	13,700	13,000	16,400	19,500	14,500	26,000	12,700	12,400 J	3,490 J
Chromium	NS*	NS**	20.1	21.0	37.2	24.6	20.9	21.0	20.4	19.9	26.0	25.0	23.8
Cobalt	70	NS	3.5 J	3.2 J	3.3 J	7.6	4.2 J	5.2	2.0 J	3.1 J	3.2 J	4.7 J	5.3
Copper	9,400	270	121	106	237	183	58.8	23.9	631	341	327	30.9	31.8
Iron	160,000	NS	20,100	22,100	27,000	31,700	23,300	25,200	23,600	22,400	25,100	37,900	29,400
Lead	400	400	597	823	1,890	1,070	539	62.7	875	746	492	78.7	68.0
Magnesium	NS	NS	8,360	6,570	6,690	5,080	6,750	12,900	4,370	8,660	4,000	7,450	5,080
Manganese	5,500	2,000	363	364	496	950	502	428	486	428	348	642	445
Nickel	4,600	140	19.9	19.4	26.6	24.9	19.2	26.2	21.9	22.2	20.4	28.0	25.5
Selenium	1,200	36	3.57 U	3.51 U	3.18 U	3.08 U	3.08 U	2.88 U	3.9 J	3.58 U	3.67 U	3.5 U	3.5 U
Silver	1,200	36	0.41 J	0.23 J	1.7	0.53 J	0.33 J	0.14 J	0.68 J	0.49 J	0.76 J	0.31 J	0.29 J
Sodium	NS	NS	287 J	207 J	176 J	226 J	233 J	177 J	242 J	230 J	292 J	208 J	167 J
Thallium	2.3	NS	2.6 U	2.5 U	2.3 U	2.2 U	2.2 U	2.1 U	2.8 U	2.6 U	2.6 U	3.8	3.1
Vanadium	1,200	NS	27.5	27.4	26.8	28.2	28.0	28.8	27.1	25.9	30.6	34.9	32.6
Zinc	70,000	2,200	508	610	1,380	894	377	110	4,380	1,940	590	198	147
Potassium	NS	NS	1,440	1,230	932	1,230	1,340	1,800	919	1,050	1,300	1,750	1,450
Tin	NS	NS	14.2	14.5	1,130	30.5	12.0	2.2 J	23.6	25.4	104	4.7 J	3.0 J

Notes:

All soil data reported in milligrams per kilogram (mg/kg).

All rinsate blank data reported in micrograms per liter (µg/L).

Detected concentrations are **Bolded**.

J - Indicates the reported value is an estimate.

U - Indicates the analyte was analyzed for but not detected.

R - Indicates the reported value was rejected.

¹ Standards obtained from the United States Environmental Protection Agency (EPA) Removal Management Levels (RMLs) for Residential Soil using a 10⁻⁴ Risk Level for Carcinogens or a Hazard Quotient (HQ) of 3 for Non-Carcinogens, January 2015.

² Standards obtained from the New York State Department of Environmental Conservation (NYSDEC) Remedial Program Soil Cleanup Objectives (SCOs) for Residential Soil, December 14, 2006.

*No standard for total chromium; EPA RMLs for Residential Soil are 120,000 mg/kg for trivalent chromium and 30 mg/kg for hexavalent chromium.

**No standard for total chromium; NYSDEC Remedial Program SCOs for Residential Soil are 36 mg/kg for trivalent chromium and 22 mg/kg for hexavalent chromium.

Results at or exceeding NYSDEC Remedial Program SCOs for Residential Soil highlighted yellow.

Non-Detect Results at or exceeding NYSDEC Remedial Program SCOs for Residential Soil highlighted green.

Results at or exceeding EPA RMLs for Residential Soil highlighted red. The detection also exceeds the NYSDEC SCO for Residential Soil, if one exists.

Non-Detect Results at or exceeding EPA RMLs for Residential Soil highlighted orange. The detection also exceeds the NYSDEC SCO for Residential Soil, if one exists.

Table 1a: Validated Analytical Data Summary - TAL Metals
Lumen Bearing Offsite Assessment
June 30 to July 9, 2015

RST 3 Sample ID	EPA RMLs for Residential Soil ¹	NYSDEC Remedial Program SCO for Residential Soil ²	P0004-SS01-0001-01	P0004-SS01-0106-01	P0004-SS01-0612-01	P0004-SS01-1224-01	P0005-SS01-0001-01	P0005-SS01-0106-01	P0005-SS01-0612-01	P0005-SS01-1224-01	P0005-SS02-0001-01	P0005-SS02-0106-01	P0005-SS02-0612-01
CLP Sample ID			MBCSH2	MBCSH3	MBCSH4	MBCSH5	MBCSH6	MBCSH7	MBCSH8	MBCSH9	MBCSJ0	MBCSJ1	MBCSJ2
Sampling Date			6/30/2015	6/30/2015	6/30/2015	6/30/2015	6/30/2015	6/30/2015	6/30/2015	6/30/2015	6/30/2015	6/30/2015	6/30/2015
Sample Depth (in)			0-1	1-6	6-12	12-24	0-1	1-6	6-12	12-24	0-1	1-6	6-12
Sample Matrix			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Aluminum	230,000	NS	7,510	8,740	8,920	11,400	11,200	14,000	14,200	14,900	14,300	12,500	12,300
Antimony	94	NS	1.2 J	2.2 J	1.8 J	0.73 J	0.64 J	5.9 U	5.3 U	0.7 J	0.72 J	0.83 J	5.1 U
Arsenic	67	16	16.2	20.5	15.0	12.9	10.0	11.7	7.1	6.3	5.9	10.9	10.0
Barium	46,000	350	242	916	232	202	171	160	132	131	202	351	219
Beryllium	470	14	0.42 J	0.59	0.52	0.62	0.49 J	0.61	0.57	0.59	0.63	0.57	0.52
Cadmium	210	2.5	2.9	5.8	3.3	2.9	3.0	2.5	1.9	1.9	3.5	3.3	2.2
Calcium	NS	NS	15,300	10,800	10,700	12,400	14,900	8,480	20,100	39,000	43,900	20,900	18,900
Chromium	NS*	NS**	25.6	26.7	22.0	20.7	26.8	32.5	21.6	22.6	23.4	24.7	20.8
Cobalt	70	NS	2.4 J	1.2 J	2.0 J	6.0	4.8 J	5.7	5.9	8.5	6.8	5.6	3.9 J
Copper	9,400	270	175	177	130	103	404	351	73.9	27.6	112	238	117
Iron	160,000	NS	22,600	36,400	29,900	28,100	27,600	28,400	26,600	28,000	28,100	27,800	26,400
Lead	400	400	1,140	1,550	690	458	713	486	137	21.8	494	1,010	434
Magnesium	NS	NS	5,080	4,000	4,790	5,790	7,000	6,730	9,330	14,900	13,800	7,980	7,280
Manganese	5,500	2,000	463	486	497	525	611	438	406	588	569	468	553
Nickel	4,600	140	20.5	25.2	21.1	21.0	37.8	37.1	27.9	34.2	30.7	27.4	19.6
Selenium	1,200	36	3.5 U	3.5 U	3.2 U	3.2 U	3.4 U	3.5 U	3.1 U	3.1 U	3.3 U	3.0 U	3.0 U
Silver	1,200	36	0.43 J	0.65 J	0.5 J	0.4 J	0.51 J	0.35 J	0.18 J	0.12 J	0.15 J	0.34 J	0.34 J
Sodium	NS	NS	334 J	368 J	291 J	372 J	316 J	263 J	256 J	293 J	202 J	203 J	205 J
Thallium	2.3	NS	2.1 J	3.7	2.7	2.9	2.8	2.8	2.6	2.9	2.4 J	2.6	2.5
Vanadium	1,200	NS	21.4	29.7	27.4	28.9	28.9	29.7	28.1	30.1	29.6	27.5	27.7
Zinc	70,000	2,200	875	1,410	627	723	372	303	130	70.4	242	606	378
Potassium	NS	NS	1,180	1,450	1,260	1,450	1,330	1,460	1,490	2,090	1,910	1,550	1,290
Tin	NS	NS	69.7	60.3	27.1	44.1	51.9	66.2	6.8	1.2 J	11.4	21.6	58.2

RST 3 Sample ID	EPA RMLs for Residential Soil ¹	NYSDEC Remedial Program SCO for Residential Soil ²	P0005-SS02-1224-01	P0006-SS01-0001-01	P0006-SS01-0106-01	P0006-SS01-0612-01	P0006-SS01-1224-01	P0007-SS01-0001-01	P0007-SS01-0106-01	P0007-SS01-0612-01	P0007-SS01-0612-02	P0007-SS01-1224-01	P0007-SS02-0001-01
CLP Sample ID			MBCSJ3	MBCSJ4	MBCSJ5	MBCSJ6	MBCSJ7	MBCSJ8	MBCSJ9	MBCSK0	MBCSK1	MBCSK2	MBCSK3
Sampling Date			6/30/2015	6/30/2015	6/30/2015	6/30/2015	6/30/2015	6/30/2015	6/30/2015	6/30/2015	6/30/2015	6/30/2015	6/30/2015
Sample Depth (in)			12-24	0-1	1-6	6-12	12-24	0-1	1-6	6-12	6-12	12-24	0-1
Sample Matrix			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Aluminum	230,000	NS	14,100	9,920	9,990	12,100	15,000	8,840	9,160	8,670	7,710	14,600	9,740
Antimony	94	NS	0.64 J	1.1 J	0.87 J	0.74 J	5.6 U	0.59 J	0.68 J	1.1 J	1.0 J	0.73 J	0.91 J
Arsenic	67	16	7.3	21.4	19.1	7.8	6.7	9.3	11.3	14.1	12.4	7.9	14.1
Barium	46,000	350	159	466	408	126	128	174	216	273	200	154	221
Beryllium	470	14	0.59	0.48 J	0.54	0.5	0.59	0.43 J	0.45 J	0.48	0.42 J	0.61	0.52
Cadmium	210	2.5	1.9	5.4	6.0	2.5	2.0	2.5	3.4	3.0	2.7	2.0	1.9
Calcium	NS	NS	6,400	7,160	9,690	33,900	26,500	17,000	25,200	20,800	19,900	9,400	28,500
Chromium	NS*	NS**	21.3	38.2	33.9	19.2	23.9	40.9 J	55.8	47.8	39.2	28.7	17.1
Cobalt	70	NS	4.8	2.7 J	5.1	6.0	4.1 J	2.7	2.6 J	3.7 J	2.7 J	5.7	2.6 J
Copper	9,400	270	54.1	830	804	129	50.7	93.5	118	134	116	47.1	62.3
Iron	160,000	NS	28,300	32,200	27,100	24,600	28,400	21,100	24,800	24,700	21,800	29,100	20,600
Lead	400	400	208	3,110	4,450	184	117	1,140	1,470	1,240	1,010	209	474
Magnesium	NS	NS	4,870	2,900	3,190	10,600	9,870	5,880	9,300	7,220	5,370	6,810	7,600
Manganese	5,500	2,000	566	576	564	498	321	486	457	491	436	363	482
Nickel	4,600	140	22.4	54.0	40.0	26.7	27.6	19.4	23.2	23.3	20.8	31.2	18.5
Selenium	1,200	36	3.1 U	3.5 U	3.1 U	3.0 U	3.2 U	3.2 U	3.3 U	3.3 U	3.2 U	3.2 U	3.5 U
Silver	1,200	36	0.25 J	0.78 J	0.62 J	0.14 J	0.15 J	0.38 J	0.49 J	0.53 J	0.46 J	0.21 J	0.26 J
Sodium	NS	NS	175 J	253 J	237 J	293 J	310 J	160 J	191 J	251 J	260 J	217 J	182 J
Thallium	2.3	NS	3.0	3.5	2.7	2.4	2.8	1.9 J	2.1 J	2.6	1.9 J	2.6	1.9 J
Vanadium	1,200	NS	29.8	26.7	26.6	25.8	30.7	23.0	24.4	26.4	22.3	31.0	23.8
Zinc	70,000	2,200	190	791	976	443	149	353	457	592	385	155	251
Potassium	NS	NS	1,340	1,210	1,150	1,660	1,900	1,120	1,160	987	843	1,570	1,280
Tin	NS	NS	6.6	91.9	90.8	10.7	8.2	14.9	30.1	41.7	31.2	7.2	12.1

Notes:

All soil data reported in milligrams per kilogram (mg/kg).

All rinsate blank data reported in micrograms per liter (µg/L).

Detected concentrations are **Bolded**.

J - Indicates the reported value is an estimate.

U - Indicates the analyte was analyzed for but not detected.

R - Indicates the reported value was rejected.

¹ Standards obtained from the United States Environmental Protection Agency (EPA) Removal Management Levels (RMLs) for Residential Soil using a 10⁻⁴ Risk Level for Carcinogens or a Hazard Quotient (HQ) of 3 for Non-Carcinogens, January 2015.

² Standards obtained from the New York State Department of Environmental Conservation (NYSDEC) Remedial Program Soil Cleanup Objectives (SCOs) for Residential Soil, December 14, 2006.

*No standard for total chromium; EPA RMLs for Residential Soil are 120,000 mg/kg for trivalent chromium and 30 mg/kg for hexavalent chromium.

**No standard for total chromium; NYSDEC Remedial Program SCOs for Residential Soil are 36 mg/kg for trivalent chromium and 22 mg/kg for hexavalent chromium.

Results at or exceeding NYSDEC Remedial Program SCOs for Residential Soil highlighted yellow.

Non-Detect Results at or exceeding NYSDEC Remedial Program SCOs for Residential Soil highlighted green.

Results at or exceeding EPA RMLs for Residential Soil highlighted red. The detection also exceeds the NYSDEC SCO for Residential Soil, if one exists.

Non-Detect Results at or exceeding EPA RMLs for Residential Soil highlighted orange. The detection also exceeds the NYSDEC SCO for Residential Soil, if one exists.

Table 1a: Validated Analytical Data Summary - TAL Metals
Lumen Bearing Offsite Assessment
June 30 to July 9, 2015

RST 3 Sample ID	EPA RMLs for Residential Soil ¹	NYSDEC Remedial Program SCOs for Residential Soil ²	P0007-SS02-0106-01	P0007-SS02-0612-01	P0007-SS02-1224-01	P0008-SS01-0001-01	P0008-SS01-0106-01	P0008-SS01-0612-01	P0008-SS01-1224-01	P0009-SS01-0001-01	P0009-SS01-0106-01	P0009-SS01-0106-02	P0009-SS01-0612-01
CLP Sample ID			MBCSK4	MBCSK5	MBCSK6	MBCSK7	MBCSK8	MBCSK9	MBCSL0	MBCSL1	MBCSL2	MBCSL3	MBCSL4
Sampling Date			6/30/2015	6/30/2015	6/30/2015	6/30/2015	6/30/2015	6/30/2015	6/30/2015	6/30/2015	6/30/2015	6/30/2015	6/30/2015
Sample Depth (in)			1-6	6-12	12-24	0-1	1-6	6-12	12-24	0-1	1-6	1-6	6-12
Sample Matrix			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Aluminum	230,000	NS	10,100	8,130	8,720	10,600	9,960	13,100	9,560	6,190	5,580	5,290	8,910
Antimony	94	NS	0.78 J	0.78 J	0.79 J	5.6 U	0.6 J	0.7 J	5.1 U	0.98 J	0.77 J	0.85 J	0.74 J
Arsenic	67	16	19.5	26.5	12.8	6.1	6.1	4.7	3.1	12.7	13.8	13.5	20.2
Barium	46,000	350	195	234	185	106	95.0	133	94.1	107	102	131	138
Beryllium	470	14	0.72	0.73	0.44	0.42 J	0.43 J	0.52	0.41 J	0.38 J	0.35 J	0.32 J	0.49
Cadmium	210	2.5	2.4	2.4	2.3	1.8	1.5	1.7	1.3	2.2	2.3	2.3	2.1
Calcium	NS	NS	54100	61,800	45,900	6,520	16,000	47,600	101,000	58,200	85,500	105,000	11,600
Chromium	NS*	NS**	15.5	27.3	16.7	15.2	16.5	19.2	14.7	21.4	20.5	17.5	18.5
Cobalt	70	NS	2.3 J	1.8 J	3.8 J	6.9	3.2 J	5.3	4.1 J	1.7 J	1.1 J	1.3	2.9 J
Copper	9,400	270	65.8	81.0	53.8	22.9	32.7	28.5	17.0	89.9	91.2	88.7	97.0
Iron	160,000	NS	18,600	21,000	24,300	25,400	20,900	23,400	18,600	18,100	17,600	17,800	23,000
Lead	400	400	517	1,120	579	108	178	134	45.4	544	395	394	366
Magnesium	NS	NS	8,660	8,950	13,700	3,390	6,540	21,000	32,300	9,690	7,080	7,110	4,490
Manganese	5,500	2,000	516	1,860	494	1,300	453	549	451	371	353	342	485
Nickel	4,600	140	18.5	18.8	20.3	14.5	18.9	24.7	19.1	19.7	18.3	18.6	20.5
Selenium	1,200	36	3.3 U	3.1 U	3.0 U	3.3 U	3.3 U	3.2 U	3.0 U	3.8 U	3.2 U	3.3 U	3.3 U
Silver	1,200	36	0.28 J	0.31 J	0.12 J	0.19 J	0.19 J	0.9 U	0.85 U	0.48 J	0.41 J	0.42 J	0.61 J
Sodium	NS	NS	178 J	395 J	207 J	111 J	117 J	157 J	178 J	160 J	245 J	163 J	211 J
Thallium	2.3	NS	1.3 J	1.1 J	2.6	1.9 J	1.6 J	1.7 J	1.4 J	1.5 J	1.6 J	1.5 J	2.6
Vanadium	1,200	NS	20.8	37.5	23.1	26.8	23.1	25.3	20.6	20.5	18.9	18.3	24.1
Zinc	70,000	2,200	340	300	255	120	130	145	76.0	258	254	237	218
Potassium	NS	NS	1,030	887	996	874	922	2,090	1,690	735	635	608	987
Tin	NS	NS	8.9	18.0	30.8	3.2 J	6.6	2.5 J	1.5 J	13.6	18.1	11.3	19.1

RST 3 Sample ID	EPA RMLs for Residential Soil ¹	NYSDEC Remedial Program SCOs for Residential Soil ²	P0009-SS01-1224-01	P0009-SS02-0001-01	P0009-SS02-0106-01	P0009-SS02-0612-01	P0009-SS02-1224-01	P0010-SS01-0001-01	P0010-SS01-0106-01	P0010-SS01-0612-01	P0010-SS01-1224-01	P0010-SS02-0001-01	P0010-SS02-0106-01
CLP Sample ID			MBCSL5	MBCSL6	MBCSL7	MBCSL8	MBCSL9	MBCSM0	MBCSM1	MBCSM2	MBCSM3	MBCSM4	MBCSM5
Sampling Date			6/30/2015	6/30/2015	6/30/2015	6/30/2015	6/30/2015	6/30/2015	6/30/2015	6/30/2015	6/30/2015	6/30/2015	6/30/2015
Sample Depth (in)			12-24	0-1	1-6	6-12	12-24	0-1	1-6	6-12	12-24	0-1	1-6
Sample Matrix			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Aluminum	230,000	NS	10,700	9,100	9,660	9,600	12,800	11,100	9,010	10,400	12,000	11,900	10,700
Antimony	94	NS	0.63 J	0.69 J	0.71 J	0.7 J	0.8 J	0.92 J	5.6 U	0.72 J	5.4 U	1.9 J	1.4 J
Arsenic	67	16	13.9	14.4	13.9	15.5	12.6	8.3	5.7	9.4	5.3	20.1	21.6
Barium	46,000	350	110	115	120	136	110	165	197	162	126	380	495
Beryllium	470	14	0.47	0.45 J	0.46	0.5	0.48	0.49	0.38 J	0.47	0.43 J	0.49 J	0.49
Cadmium	210	2.5	1.9	1.9	1.9	2.3	1.9	2.2	1.6	2.6	1.7	4.4	3.3
Calcium	NS	NS	15,400	14,800	18,300	25,200	8,370	27,100	38,700	34,700	46,900	16,800	22,400
Chromium	NS*	NS**	19.4	18.0	18.5	19.9	20.1	19.9	15.0	19.5	16.0	31.7	24.4
Cobalt	70	NS	3.1 J	3.5 J	3.8 J	3.6 J	5.6	4.1 J	4.1 J	3.5 J	18.4	3.5 J	3.3 J
Copper	9,400	270	54.8	89.4	78.1	87.9	36.2	37.5	28.6	39.5	17.0	108	81.2
Iron	160,000	NS	25,100	21,600	21,800	22,400	28,500	23,300	18,500	22,000	23,900	29,300	25,000
Lead	400	400	187	251	278	334	122	769	422	844	103	2,370	2,850
Magnesium	NS	NS	4,270	5,640	5,820	8,450	4,500	10,600	12,200	13,200	18,400	7,120	6,880
Manganese	5,500	2,000	449	459	490	508	522	529	426	438	1710	606	577
Nickel	4,600	140	18.2	18.4	19.2	20.5	16.8	22.0	17.6	21.2	19.3	31.6	23.5
Selenium	1,200	36	3.2 U	3.4 U	3.0 U	3.0 U	2.9 U	3.3 U	3.3 U	3.2 U	3.1 U	3.5 U	3.1 U
Silver	1,200	36	0.51 J	0.54 J	0.99	0.63 J	0.63 J	0.55 J	0.35 J	0.5 J	0.46 J	0.93 J	0.77 J
Sodium	NS	NS	151 J	127 J	143 J	154 J	150 J	135 J	201 J	147 J	164 J	189 J	160 J
Thallium	2.3	NS	2.1 J	1.8 J	1.8 J	2.3	3.0	2.0 J	1.6 J	1.8 J	1.3 J	2.8	2.2 J
Vanadium	1,200	NS	26.7	24.3	25.4	25.1	33.6	26.8	21.0	25.3	29.6	29.4	27.5
Zinc	70,000	2,200	145	201	192	234	122	294	178	358	102	966	566
Potassium	NS	NS	1,040	1,330	1,210	1,200	1,310	1,470	1,270	1,200	1,640	1,550	1,270
Tin	NS	NS	24.8	9.9	9.2	13.1	5.2	5.0	3.7 J	7.5	1.6 J	15.1	11.9

Notes:

All soil data reported in milligrams per kilogram (mg/kg).
All rinsate blank data reported in micrograms per liter (µg/L).
Detected concentrations are **Bolded**.
J - Indicates the reported value is an estimate.
U - Indicates the analyte was analyzed for but not detected.
R - Indicates the reported value was rejected.

¹ Standards obtained from the United States Environmental Protection Agency (EPA) Removal Management Levels (RMLs) for Residential Soil using a 10⁻⁴ Risk Level for Carcinogens or a Hazard Quotient (HQ) of 3 for Non-Carcinogens, January 2015.

² Standards obtained from the New York State Department of Environmental Conservation (NYSDEC) Remedial Program Soil Cleanup Objectives (SCOs) for Residential Soil, December 14, 2006.

*No standard for total chromium; EPA RMLs for Residential Soil are 120,000 mg/kg for trivalent chromium and 30 mg/kg for hexavalent chromium.

**No standard for total chromium; NYSDEC Remedial Program SCOs for Residential Soil are 36 mg/kg for trivalent chromium and 22 mg/kg for hexavalent chromium.

Results at or exceeding NYSDEC Remedial Program SCOs for Residential Soil highlighted yellow.

Non-Detect Results at or exceeding NYSDEC Remedial Program SCOs for Residential Soil highlighted green.

Results at or exceeding EPA RMLs for Residential Soil highlighted red. The detection also exceeds the NYSDEC SCO for Residential Soil, if one exists.

Non-Detect Results at or exceeding EPA RMLs for Residential Soil highlighted orange. The detection also exceeds the NYSDEC SCO for Residential Soil, if one exists.

Table 1a: Validated Analytical Data Summary - TAL Metals
Lumen Bearing Offsite Assessment
June 30 to July 9, 2015

RST 3 Sample ID	EPA RMLs for Residential Soil ¹	NYSDEC Remedial Program SCO for Residential Soil ²	P0010-SS02-0612-01	P0010-SS02-1224-01	P0011-SS01-0001-01	P0011-SS01-0106-01	P0011-SS01-0612-01	P0011-SS01-1224-01	P0011-SS02-0001-01	P0011-SS02-0106-01	P0011-SS02-0612-01	P0011-SS02-1224-01	P0012-SS01-0001-01
CLP Sample ID			MBCSM6	MBCSM7	MBCSM9	MBCSN0	MBCSN1	MBCSN2	MBCSN3	MBCSN4	MBCSN5	MBCSN6	MBCSN7
Sampling Date			6/30/2015	6/30/2015	6/30/2015	6/30/2015	6/30/2015	6/30/2015	6/30/2015	6/30/2015	6/30/2015	6/30/2015	7/1/2015
Sample Depth (in)			6-12	12-24	0-1	1-6	6-12	12-24	0-1	1-6	6-12	12-24	0-1
Sample Matrix			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Aluminum	230,000	NS	10,400	14,100	9,320	9,100	10,800	10,900	10,100	8,600	9,880	12,100	8,900
Antimony	94	NS	2.5 J	0.63 J	5.8 U	0.65 J	6.9	5 U	1.3 J	1.1 J	0.93 J	5.4 U	0.87 J
Arsenic	67	16	17.6	5.9	7.5	8.5	0.85 U	5.7	12.7	6.5	14.2	7.3	11.3
Barium	46,000	350	284	157	143	153	109	200	183	160	130	404	
Beryllium	470	14	0.46 J	0.57	0.44 J	0.44 J	0.47	0.46	0.55	0.39 J	0.48	0.52	0.42 J
Cadmium	210	2.5	3.5	2.1	2.0	2.1	3.4	1.6	2.2	1.8	2.1	1.7	2.3
Calcium	NS	NS	18,300	33,600	31,400	33,000	48,700	74,500	31,800	60,000	55,400	36,900	19,500
Chromium	NS*	NS**	24.4	20.3	23.0	19.1	18.7	16.6	22.5	15.8	19.2	18.5	22.2
Cobalt	70	NS	3.8 J	5.8	3.9 J	3.6 J	2.2 J	6.7	3.7 J	3.2 J	4.4 J	4.8	3.6 J
Copper	9,400	270	68.3	23.0	75.6	93.6	71.2	25.8	106	47.2	86.2	38.5	69.6
Iron	160,000	NS	27,800	25,500	21,400	21,600	22,900	21,700	23,900	20,100	22,500	21,700	20,400
Lead	400	400	1,280	184	435	441	269	43.5	419	222	310	136	1,440
Magnesium	NS	NS	8,150	13,000	12,200	13,500	18,300	19,500	14,200	16,500	22,300	13,500	8,450
Manganese	5,500	2,000	675	546	463	424	455	550	456	444	490	470	471
Nickel	4,600	140	23.6	22.9	22.6	22.2	29.2	24.3	25.2	19.5	24.7	20.9	19.2
Selenium	1,200	36	3.3 U	2.9 U	3.4 U	3.1 U	60.4	2.9 U	3.6 U	3.3 U	3.2 U	3.1 U	3.5 U
Silver	1,200	36	0.68 J	0.4 J	0.18 J	0.17 J	0.052 J	0.83 U	0.29 J	0.11 J	0.14 J	0.34 J	0.53 J
Sodium	NS	NS	163 J	155 J	176 J	182 J	214 J	207 J	188 J	173 J	208 J	256 J	261 J
Thallium	2.3	NS	2.8	2.0 J	1.7 J	1.9 J	5.0	1.7 J	2.0 J	1.5 J	1.7 J	2.1 J	1.8 J
Vanadium	1,200	NS	28.7	28.6	23.0	23.3	25.5	24.9	27.1	21.8	25.1	28.1	22.8
Zinc	70,000	2,200	470	145	302	290	217	80.1	382	207	264	140	819
Potassium	NS	NS	1,140	1,850	1,510	1,460	1,840	1,770	1,850	1,610	1,680	1,890	1,290
Tin	NS	NS	21.1	3.5 J	10.6	12.1	45.6	1.7 J	16.7	7.6	18.0	5.0	9.1

RST 3 Sample ID	EPA RMLs for Residential Soil ¹	NYSDEC Remedial Program SCO for Residential Soil ²	P0012-SS01-0106-01	P0012-SS01-0612-01	P0012-SS01-1224-01	P0012-SS02-0001-01	P0012-SS02-0106-01	P0012-SS02-0612-01	P0012-SS02-1224-01	P0013-SS01-0001-01	P0013-SS01-0106-01	P0013-SS01-0612-01	P0013-SS01-1224-01
CLP Sample ID			MBCSN8	MBCSN9	MBCSP0	MBCSP1	MBCSP2	MBCSP3	MBCSP4	MBCSP5	MBCSP6	MBCSP7	MBCSP8
Sampling Date			7/1/2015	7/1/2015	7/1/2015	7/1/2015	7/1/2015	7/1/2015	7/1/2015	7/1/2015	7/1/2015	7/1/2015	7/1/2015
Sample Depth (in)			1-6	6-12	12-24	0-1	1-6	6-12	12-24	0-1	1-6	6-12	12-24
Sample Matrix			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Aluminum	230,000	NS	9,510	8,310	12,100	7,590	8,520	9,400	13,200	8,050	7,710	8,460	10,400
Antimony	94	NS	0.64 J	2.1 J	0.53 J	6.1	5.6 U	5.5 U	5.5 U	0.83 J	0.84 J	0.64 J	5.3 U
Arsenic	67	16	13.2	8.7	5.6	8.7	6.2 U	8.8	4.8	11.9	14.0	8.5	6.4
Barium	46,000	350	189	1380	122	148	165	369	125	135	212	130	127
Beryllium	470	14	0.47 J	0.39 J	0.51	0.38 J	0.42 J	0.43 J	0.56	0.44 J	0.48	0.41 J	0.46
Cadmium	210	2.5	2.1	3.4	1.6	1.7	1.8	2.7	1.7	2.4	2.8	1.8	1.6
Calcium	NS	NS	23,200	39,100	37,200	13,200	14,300	40,800	22,000	17,500	44,300	36,800	64,000
Chromium	NS*	NS**	17.9	27.6	18.2	14.7	15.4	166	18.6	21.9	19.9	15.3	15.7
Cobalt	70	NS	4.0 J	2.3 J	4.3	2.5 J	3.8 J	3.1 J	4.5 J	2.7 J	2.2 J	5.6	5.0
Copper	9,400	270	82.7	99.3	33.2	50.1	45.0	86.4	28.6	117	164	70.4	27.5
Iron	160,000	NS	21,900	25,300	21,400	17,400	18,500	21,300	24,500	21,400	21,700	19,000	20,300
Lead	400	400	635	1,110	131	409	389	539	76.1	1,030	2,030	391	138
Magnesium	NS	NS	9,990	11,700	14,700	6,020	7,040	14,400	9,860	8,100	7,350	13,700	18,100
Manganese	5,500	2,000	487	411	478	384	494	459	483	467	421	713	507
Nickel	4,600	140	19.8	17.5	21.2	14.5	16.1	20.4	21.1	19.6	20.4	19.2	21.0
Selenium	1,200	36	3.4 U	3.1 U	2.9 U	3.5 U	3.3 U	3.2 U	3.2 U	3.4 U	3.3 U	3.2 U	3.1 U
Silver	1,200	36	0.47 J	0.49 J	0.32 J	0.41 J	0.39 J	0.45 J	0.33 J	0.57 J	1.0	0.42 J	0.34 J
Sodium	NS	NS	293 J	351 J	189 J	108 J	92.4 J	147 J	118 J	130 J	150 J	147 J	162 J
Thallium	2.3	NS	1.9 J	2.4	2.0 J	1.5 J	1.4 J	1.9 J	2.3 J	1.9 J	2.0 J	1.4 J	1.5 J
Vanadium	1,200	NS	24.8	20.6	24.7	19.9	21.9	25.1	27.1	20.9	21.6	21.1	23.1
Zinc	70,000	2,200	360	1,100	126	309	271	530	132	418	519	235	124
Potassium	NS	NS	1,210	987	1,380	992	952	1,200	1,250	1,170	940	1,140	1,450
Tin	NS	NS	12.5	24.1	3.6 J	11.3	7.2	9.9	3.4 J	17.6	40.8	20.4	5.4

Notes:

All soil data reported in milligrams per kilogram (mg/kg).

All rinsate blank data reported in micrograms per liter (µg/L).

Detected concentrations are **Bolded**.

J - Indicates the reported value is an estimate.

U - Indicates the analyte was analyzed for but not detected.

R - Indicates the reported value was rejected.

¹ Standards obtained from the United States Environmental Protection Agency (EPA) Removal Management Levels (RMLs) for Residential Soil using a 10⁻⁴ Risk Level for Carcinogens or a Hazard Quotient (HQ) of 3 for Non-Carcinogens, January 2015.

² Standards obtained from the New York State Department of Environmental Conservation (NYSDEC) Remedial Program Soil Cleanup Objectives (SCOs) for Residential Soil, December 14, 2006.

*No standard for total chromium; EPA RMLs for Residential Soil are 120,000 mg/kg for trivalent chromium and 30 mg/kg for hexavalent chromium.

**No standard for total chromium; NYSDEC Remedial Program SCOs for Residential Soil are 36 mg/kg for trivalent chromium and 22 mg/kg for hexavalent chromium.

Results at or exceeding NYSDEC Remedial Program SCOs for Residential Soil highlighted yellow.

Non-Detect Results at or exceeding NYSDEC Remedial Program SCOs for Residential Soil highlighted green.

Results at or exceeding EPA RMLs for Residential Soil highlighted red. The detection also exceeds the NYSDEC SCO for Residential Soil, if one exists.

Non-Detect Results at or exceeding EPA RMLs for Residential Soil highlighted orange. The detection also exceeds the NYSDEC SCO for Residential Soil, if one exists.

Table 1a: Validated Analytical Data Summary - TAL Metals
Lumen Bearing Offsite Assessment
June 30 to July 9, 2015

RST 3 Sample ID	EPA RMLs for Residential Soil ¹	NYSDEC Remedial Program SCOs for Residential Soil ²	P0014-SS01-0001-01	P0014-SS01-0106-01	P0014-SS01-0612-01	P0014-SS01-1224-01	P0014-SS02-0001-01	P0014-SS02-0106-01	P0014-SS02-0106-02	P0014-SS02-0612-01	P0014-SS02-1224-01	P0015-SS01-0001-01	P0015-SS01-0106-01
CLP Sample ID			MBCSP9	MBCSQ0	MBCSQ1	MBCSQ2	MBCSQ3	MBCSQ4	MBCSQ5	MBCSQ6	MBCSQ7	MBCSQ8	MBCSQ9
Sampling Date			7/1/2015	7/1/2015	7/1/2015	7/1/2015	7/1/2015	7/1/2015	7/1/2015	7/1/2015	7/1/2015	7/1/2015	7/1/2015
Sample Depth (in)			0-1	1-6	6-12	12-24	0-1	1-6	1-6	6-12	12-24	0-1	1-6
Sample Matrix			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Aluminum	230,000	NS	6,770	7,900	9,120	14,800	8,640	9,990	6,440	11,100	7,510	10,300	9,220
Antimony	94	NS	0.65 J	0.73 J	5.5 U	5.5 U	5.7 U	5.5 U	5.4 U	5 U	0.61 J	5.9 U	5.5 U
Arsenic	67	16	8.7	11.8	10.1	6.2	5.3	5.2	3.8	4.7	4.8	7.0	11.1
Barium	46,000	350	174	246	215	146	114	119	73.6	142	87.4	165	183
Beryllium	470	14	0.38 J	0.42 J	0.44 J	0.82	0.38 J	0.43 J	0.33 J	0.47	0.33 J	0.49 J	0.5
Cadmium	210	2.5	2.8	3.0	2.3	1.8	1.5	1.7	1.2	1.5	1.2	1.9	2.5
Calcium	NS	NS	46,800	15,700	18,300	16,100	35,000	53,700 J	200,000 J	42,200	36,600	14,900	20,500
Chromium	NS*	NS**	39.1	55.7	32.1	23.9	19.4	20.4 J	10.8 J	17.5	17.3	18.5	20.0
Cobalt	70	NS	3.3 J	2.3 J	2.8 J	4.6	3.6 J	4.9	3.3 J	5.2	2.9 J	4.1 J	5.2
Copper	9,400	270	173	86.8	70.5	26.8	29.0	27.2	17.3	25.7	24.2	39.7	80.9
Iron	160,000	NS	17,300	21,700	21,400	26,300	18,200	21,000	13,300	21,700	15,600	21,600	21,800
Lead	400	400	781	984	648	71.2	274	157	89.2	212	147	573	869
Magnesium	NS	NS	6,910	6,230	7,120	8,640	13,400	18,800	13,600	15,700	13,000	6,130	8,440
Manganese	5,500	2,000	376	426	439	356	368	470	352	390	340	467	631
Nickel	4,600	140	17.9	19.5	18.8	26.5	17.2	20.4	14.1	20.8	13.8	19.6	21.5
Selenium	1,200	36	3.4 U	3.3 U	3.2 U	3.2 U	3.3 U	3.2 U J	3.2 U	2.9 U	2.8 U	3.4 U	3.2 U
Silver	1,200	36	0.51 J	0.82 J	0.61 J	0.4 J	0.37 J	0.35 J	0.064 J	0.28 J	0.26 J	0.44 J	0.52 J
Sodium	NS	NS	183 J	248 J	276 J	335 J	136 J	135 J	103 J	143 J	116 J	232 J	202 J
Thallium	2.3	NS	1.4 J	1.5 J	1.8 J	2.6	1.4 J	1.6 J	0.68 J	1.5 J	1.1 J	1.7 J	1.9 J
Vanadium	1,200	NS	18.2	23.3	23.7	27.7	20.9	23.6	14.9	23.8	19.4	23.4	24.8
Zinc	70,000	2,200	476	513	382	100	152	123 J	70.5 J	103	99.2	236	393
Potassium	NS	NS	1,210	1,110	1,110	1,340	1,470	1,450	1,110	1,500	956	1,040	1,030
Tin	NS	NS	14.2	13.5	13.9	2.4 J	3.9 J	5.8	1.8 J	3.1 J	5.1	4.8 J	40.6

RST 3 Sample ID	EPA RMLs for Residential Soil ¹	NYSDEC Remedial Program SCOs for Residential Soil ²	P0015-SS01-0612-01	P0015-SS01-1224-01	P0015-SS02-0001-01	P0015-SS02-0106-01	P0015-SS02-0612-01	P0015-SS02-1224-01	P0016-SS01-0001-01	P0016-SS01-0106-01	P0016-SS01-0612-01	P0016-SS01-1224-01	P0017-SS01-0001-01
CLP Sample ID			MBCSR0	MBCSR1	MBCSR2	MBCSR3	MBCSR4	MBCSR5	MBCSR6	MBCSR7	MBCSR8	MBCSR9	MBCSS0
Sampling Date			7/1/2015	7/1/2015	7/1/2015	7/1/2015	7/1/2015	7/1/2015	7/1/2015	7/1/2015	7/1/2015	7/1/2015	7/1/2015
Sample Depth (in)			6-12	12-24	0-1	1-6	6-12	12-24	0-1	1-6	6-12	12-24	0-1
Sample Matrix			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Aluminum	230,000	NS	12,400	12,700	7,560	8,350	8,760	9,830	8,650	6,760	8,470	10,700	8,010
Antimony	94	NS	0.6 J	5.6 U	0.91 J	0.97 J	0.94 J	0.56 J	1.1 J	0.9 J	0.8 J	5.1 U	4.1 J
Arsenic	67	16	5.8	4.1	11.3	14.7	16.3	7.7	10.3	10.9	12.2	5.5	8.9
Barium	46,000	350	146	123	268	356	357	134	168	143	155	115	203
Beryllium	470	14	0.53	0.56	0.4 J	0.49	0.5	0.38 J	0.44 J	0.37 J	0.41 J	0.43 J	0.41 J
Cadmium	210	2.5	1.7	1.6	2.7	3.1	3.5	1.7	2.7	2.3	2.6	1.8	2.8
Calcium	NS	NS	22,500	33,500	21,500	21,000	25,100	30,700	23,300	24,800	51,700	48,600	22,700
Chromium	NS*	NS**	19.0	18.3	23.1	24.6	22.6	15.6	29.5	20.1	21.8	17.2	22.2
Cobalt	70	NS	3.9 J	4.5 J	5.5	2.7 J	2.6 J	2.6 J	3.2 J	2.4 J	4.1 J	4.3 J	3.0 J
Copper	9,400	270	32.1	24.2	102	111	127	38.7	73.7	67.5	70.2	26.1	87.2
Iron	160,000	NS	22,800	23,800	20,400	22,200	23,500	20,400	22,200	19,400	19,000	20,100	22,000
Lead	400	400	188	26.5	1,480	1,750	1,590	178.0	703	513	603	152	1,490
Magnesium	NS	NS	10,800	21,200	8,930	8,910	8,910	10,000	8,350	8,390	13,300	16,700	8,760
Manganese	5,500	2,000	410	428	431	484	479	413	424	336	470	422	488
Nickel	4,600	140	19.2	23.6	19.7	20.4	19.9	14.2	19.7	17.5	19.9	19.6	21.5
Selenium	1,200	36	3.0 U	3.3 U	3.5 U	3.4 U	3.2 U	3.2 U	3.4 U	3.2 U	3.1 U	3.0 U	1.7 J
Silver	1,200	36	0.34 J	0.35 J	0.59 J	0.73 J	0.78 J	0.31 J	0.62 J	0.48 J	0.42 J	0.21 J	0.52 J
Sodium	NS	NS	204 J	199 J	154 J	187 J	297 J	345 J	180 J	179 J	191 J	181 J	196 J
Thallium	2.3	NS	2.0 J	2.1 J	1.6 J	1.9 J	2.2 J	1.9 J	2.0 J	1.5 J	1.4 J	1.9 J	1.2 J
Vanadium	1,200	NS	25.5	26.4	21.8	25.0	24.4	23.1	22.5	18.9	22.1	23.4	20.9
Zinc	70,000	2,200	148	76.2	945	837	784	144	337	281	348	135	632
Potassium	NS	NS	1,240	1,290	1,130	1,070	1,100	1,210	1,300	931	1,050	1,450	1,010
Tin	NS	NS	3.9 J	1.3 J	13.2	16.7	23.6	12.2	10.2	8.0	12.6	2.4 J	17.7

Notes:
All soil data reported in milligrams per kilogram (mg/kg).
All rinsate blank data reported in micrograms per liter (µg/L).
Detected concentrations are **Bolded**.
J - Indicates the reported value is an estimate.
U - Indicates the analyte was analyzed for but not detected.
R - Indicates the reported value was rejected.
¹ Standards obtained from the United States Environmental Protection Agency (EPA) Removal Management Levels (RMLs) for Residential Soil using a 10⁻⁴ Risk Level for Carcinogens or a Hazard Quotient (HQ) of 3 for Non-Carcinogens, January 2015.
² Standards obtained from the New York State Department of Environmental Conservation (NYSDEC) Remedial Program Soil Cleanup Objectives (SCOs) for Residential Soil, December 14, 2006.
*No standard for total chromium; EPA RMLs for Residential Soil are 120,000 mg/kg for trivalent chromium and 30 mg/kg for hexavalent chromium.
**No standard for total chromium; NYSDEC Remedial Program SCOs for Residential Soil are 36 mg/kg for trivalent chromium and 22 mg/kg for hexavalent chromium.
Results at or exceeding NYSDEC Remedial Program SCOs for Residential Soil highlighted yellow.
Non-Detect Results at or exceeding NYSDEC Remedial Program SCOs for Residential Soil highlighted green.
Results at or exceeding EPA RMLs for Residential Soil highlighted red. The detection also exceeds the NYSDEC SCO for Residential Soil, if one exists.
Non-Detect Results at or exceeding EPA RMLs for Residential Soil highlighted orange. The detection also exceeds the NYSDEC SCO for Residential Soil, if one exists.

Table 1a: Validated Analytical Data Summary - TAL Metals
Lumen Bearing Offsite Assessment
June 30 to July 9, 2015

RST 3 Sample ID	EPA RMLs for Residential Soil ¹	NYSDEC Remedial Program SCOs for Residential Soil ²	P0017-SS01-0106-01	P0017-SS01-0612-01	P0017-SS01-1224-01	P0017-SS02-0001-01	P0017-SS02-0106-01	P0017-SS02-0612-01	P0017-SS02-1224-01	P0018-SS01-0001-01	P0018-SS01-0106-01	P0018-SS01-0612-01	P0018-SS01-0612-02
CLP Sample ID			MBCSS1	MBCSS2	MBCSS3	MBCSS4	MBCSS5	MBCSS6	MBCSS7	MBCSS8	MBCSS9	MBCST0	MBCST1
Sampling Date			7/1/2015	7/1/2015	7/1/2015	7/1/2015	7/1/2015	7/1/2015	7/1/2015	7/1/2015	7/1/2015	7/1/2015	7/1/2015
Sample Depth (in)			1-6	6-12	12-24	0-1	1-6	6-12	12-24	0-1	1-6	6-12	6-12
Sample Matrix			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Aluminum	230,000	NS	8,410	10,000	9,010	12,600	10,400	10,000	10,100	7,850	8,850	8,480	6,810
Antimony	94	NS	0.66 J	5.5 U	0.62 J	5.2 U	5.7 U	0.59 J	0.83 J	4.8 J	6.2	13.2	23.6
Arsenic	67	16	7.4	5.3	4.7	6.1	5.5	6.8	6.9	12.8	13.9	9.6	12.7
Barium	46,000	350	164	124	92.3	120	140	157	109	172	233	187	170
Beryllium	470	14	0.43 J	0.44 J	0.41 J	0.57	0.5	0.49	0.44 J	0.37 J	0.43 J	0.36 J	0.27 J
Cadmium	210	2.5	2.4	1.7	1.4	1.9	1.9	1.9	2.3	3.0	3.2	2.5	3.6
Calcium	NS	NS	23,500	26,800	33,600	42,600	44,900	38,700	46,600	16,300	19,100	30,300	19,700
Chromium	NS*	NS**	22.8	15.9	13.3	17.6	19.7	16.3	16.6	25.9	20.7	17.5	21.3
Cobalt	70	NS	3.5 J	3.3 J	3.0 J	7.4	5.4	3.7 J	2.7 J	2.4 J	2.0 J	2.5 J	4.6 U
Copper	9,400	270	69.0	45.2	27.9	28.6	53.1	76.4	24.0	330	361	174	287
Iron	160,000	NS	19,900	19,400	17,400	24,100	21,300	20,800	30,600	25,600	30,000	25,000	40,200
Lead	400	400	919	298	153	113	317	392	73.9	1,130	1,130	628	759
Magnesium	NS	NS	9,430	13,600	13,900	15,500	15,000	13,600	17,200	6,910	8,310	11,300	7,860
Manganese	5,500	2,000	481	384	387	645	493	421	515	473	539	488	569
Nickel	4,600	140	19.9	19.2	16.1	30.9	22.6	19.9	18.1	24.6	26.5	18.9	19.9
Selenium	1,200	36	1.5 J	1.2 J	0.94 J	0.92 J	0.73 J	1.3 J	1.1 J	3.3 U	3.1 U	3.3 U	3.2 U
Silver	1,200	36	0.92 J	0.29 J	0.19 J	0.25 J	0.3 J	0.31 J	0.23 J	0.59 J	0.59 J	0.37 J	0.47 J
Sodium	NS	NS	172 J	267 J	228 J	161 J	157 J	172 J	189 J	213 J	242 J	208 J	242 J
Thallium	2.3	NS	0.85 J	0.47 J	0.55 J	0.97 J	0.69 J	0.83 J	1.9 J	2.6	3.0	2.4 J	4.0
Vanadium	1,200	NS	21.2	20.8	20.7	25.8	23.9	24.0	27.8	23.2	24.4	22.0	30.3
Zinc	70,000	2,200	416	172	162	130	217	221.0	102	547	517	370	425
Potassium	NS	NS	1,020	1,150	1,170	2,180	1,690	1,510	1,420	1,600	1,520	1,230	878
Tin	NS	NS	18.3	22.9	6.3	2.4 J	7.4	9.9	4.0 J	60.1	77.0	107	180

RST 3 Sample ID	EPA RMLs for Residential Soil ¹	NYSDEC Remedial Program SCOs for Residential Soil ²	P0018-SS01-1224-01	P0019-SS01-0001-01	P0019-SS01-0106-01	P0019-SS01-0612-01	P0019-SS01-1224-01	P0019-SS02-0001-01	P0019-SS02-0106-01	P0019-SS02-0612-01	P0019-SS02-1224-01	RB-063015	RB-070115
CLP Sample ID			MBCST2	MBCST3	MBCST4	MBCST5	MBCST6	MBCST7	MBCST8	MBCST9	MBCSW0	MBCSM8	MBCSW1
Sampling Date			7/1/2015	7/1/2015	7/1/2015	7/1/2015	7/1/2015	7/1/2015	7/1/2015	7/1/2015	7/1/2015	6/30/2015	7/1/2015
Sample Depth (in)			12-24	0-1	1-6	6-12	12-24	0-1	1-6	6-12	12-24	N/A	N/A
Sample Matrix			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Rinsate Blank	Rinsate Blank
Aluminum	230,000	NS	13,800	10,200	9,680	8,940	12,000	9,710	10,700	8,630	12,200	200 U	200 U
Antimony	94	NS	0.74 J	0.7 J	0.51 J	1.1 J	5.1 U	5.7 U	0.65 J	6.0	0.66 J	60 U	60 U
Arsenic	67	16	7.5	5.3	6.4	8.3	5.1	6.4	6.2	7.7	4.2	2.3 J	10 U
Barium	46,000	350	139	108	115	103	136	167	131	144	110	200 U	200 U
Beryllium	470	14	0.58	0.97	0.53	0.45 J	0.55	0.52	0.55	0.47 J	0.56	5 U	5 U
Cadmium	210	2.5	1.9	1.4	2.0	2.1	1.5	1.7	1.6	1.7	1.5	5 U	5 U
Calcium	NS	NS	33,500	44,400	31,600	59,200	19,200	33,800	35,300	52,500	53,900	5,000 U	5,000 U
Chromium	NS*	NS**	21.6	12.4	15.3	16.1	16.7	20.9	14.6	14.8	18.1	10 U	10 U
Cobalt	70	NS	7.4	2.3 J	2.4 J	8.0	7.3	3.7 J	5.4	3.2 J	2.8 J	50 U	50 U
Copper	9,400	270	50.4	39.2	44.0	36.2	22.7	39.0	26.9	73.9	25.3	25 U	25 U
Iron	160,000	NS	26,900	15,800	22,300	27,800	23,400	19,900	19,700	19,600	23,500	100 U	100 U
Lead	400	400	78.1	290	255	202	58.5	625	205	3,450	98.5	10 U	10 U
Magnesium	NS	NS	14,700	9,180	8,650	14,500	8,680	10,300	13,100	16,100	15,800	5,000 U	5,000 U
Manganese	5,500	2,000	461	506	555	666	674	594	618	446	311	15 U	15 U
Nickel	4,600	140	30.1	13.8	17.1	22.4	26.1	16.5	18.9	17.6	24.4	40 U	40 U
Selenium	1,200	36	3.0 U	1.3 J	1.1 J	1.6 J	1.2 J	1.1 J	1.1 J	1.2 J	1.3 J	35 U	35 U
Silver	1,200	36	0.11 J	0.23 J	0.28 J	0.24 J	0.27 J	0.28 J	0.23 J	0.28 J	0.15 J	10 U	10 U
Sodium	NS	NS	196 J	181 J	141 J	166 J	143 J	132 J	127 J	181 J	146 J	5,000 U	5,000 U
Thallium	2.3	NS	2.7	2.5 U	0.9 J	1.1 J	0.52 J	2.4 U	0.43 J	0.42 J	1.2 J	25 U	25 U
Vanadium	1,200	NS	29.0	17.4	21.5	27.1	24.6	23.1	22.8	22.9	24.3	50 U	50 U
Zinc	70,000	2,200	134	178	182	126	71.6	366	166	296	90.5	60 U	13.7 J
Potassium	NS	NS	1,660	1,430	1,170	1,180	1,280	1,410	1,430	1,340	1,680	5,000 U	5,000 U
Tin	NS	NS	6.9	5.3	6.6	5.0	2.4 J	6.8	6.5	34.5	2.2 J	7 U	7 U

Notes:

All soil data reported in milligrams per kilogram (mg/kg).

All rinsate blank data reported in micrograms per liter (µg/L).

Detected concentrations are **Bolded**.

J - Indicates the reported value is an estimate.

U - Indicates the analyte was analyzed for but not detected.

R - Indicates the reported value was rejected.

¹ Standards obtained from the United States Environmental Protection Agency (EPA) Removal Management Levels (RMLs) for Residential Soil using a 10 ⁻⁴ Risk Level for Carcinogens or a Hazard Quotient (HQ) of 3 for Non-Carcinogens, January 2015.

² Standards obtained from the New York State Department of Environmental Conservation (NYSDEC) Remedial Program Soil Cleanup Objectives (SCOs) for Residential Soil, December 14, 2006.

*No standard for total chromium; EPA RMLs for Residential Soil are 120,000 mg/kg for trivalent chromium and 30 mg/kg for hexavalent chromium.

**No standard for total chromium; NYSDEC Remedial Program SCOs for Residential Soil are 36 mg/kg for trivalent chromium and 22 mg/kg for hexavalent chromium.

Results at or exceeding NYSDEC Remedial Program SCOs for Residential Soil highlighted yellow.

Non-Detect Results at or exceeding NYSDEC Remedial Program SCOs for Residential Soil highlighted green.

Results at or exceeding EPA RMLs for Residential Soil highlighted red. The detection also exceeds the NYSDEC SCO for Residential Soil, if one exists.

Non-Detect Results at or exceeding EPA RMLs for Residential Soil highlighted orange. The detection also exceeds the NYSDEC SCO for Residential Soil, if one exists.

Table 1b: Validated Analytical Data Summary- TAL Metals
Lumen Bearing Offsite Assessment
June 30 to July 9, 2015

RST 3 Sample ID	EPA RMLs for Residential Soil ¹	NYSDEC Remedial Program SCOs for Residential Soil ²	P0020-SS01-0001-01	P0020-SS01-0106-01	P0020-SS01-0106-02	P0020-SS01-0612-01	P0020-SS01-1224-01	P0020-SS02-0001-01	P0020-SS02-0106-01	P0020-SS02-0612-01	P0020-SS02-1224-01	P0020-SS03-0001-01	P0020-SS03-0106-01
CLP Sample ID			MBCSW2	MBCSW3	MBCSW4	MBCSW5	MBCSW6	MBCSW7	MBCSW8	MBCSW9	MBCSX0	MBCT05	MBCT06
Sampling Date			7/8/2015	7/8/2015	7/8/2015	7/8/2015	7/8/2015	7/8/2015	7/8/2015	7/8/2015	7/8/2015	7/9/2015	7/9/2015
Sample Depth (in)			0-1	1-6	1-6	6-12	12-24	0-1	1-6	6-12	12-24	0-1	1-6
Sample Matrix			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Aluminum	230,000	NS	7,920	7,660	8,460	7,810	9,290	9,190	8,840	7,970	7,510	7,040	7,130
Antimony	94	NS	5.7 U	0.67 J	8.6	1.3 J	1.2 J	0.84 J	1.4 J	5.0 U	5.3 U	0.72 J	0.65 J
Arsenic	67	16	8.4	10.1	14.3	9.5	8.1	8.5	8.7	4.8	3.7	8.3	8.2
Barium	46,000	350	81.8	132 J	455 J	159	177	160	177	438	76.2	80.9	73.4
Beryllium	470	14	0.37 J	0.41 J	8.3 J	0.44	0.53	0.56	0.53	0.37 J	0.33 J	0.39 J	0.39 J
Cadmium	210	2.5	2.0	2.0 J	9.8 J	2.3	1.9	2.3	2.3	1.4	1.1	1.6	1.8
Calcium	NS	NS	11,700	10,400	8,070	32,800	40,400	22,600	28,100	45,000	55,600	31,600	48,800
Chromium	NS*	NS**	13.2	13.9 J	44.9 J	15.0	16.0	18.1	16	12.8	12.3	13.1	11.8
Cobalt	70	NS	3.2 J	3.2 J	88.3 J	2.0 J	3.9 J	3.7 J	3.0 J	3.7 J	3.5 J	2.3 J	1.7 J
Copper	9,400	270	126	170	177	154	116	252	219	42.8	22.6	86.5	111
Iron	160,000	NS	19,100	18,500	19,300	23,400	19,700	21,700	20,200	17,300	15,400	17,200	18,400
Lead	400	400	191	392	262	413	738	419	408	2,500	47.0	96.3	86.7
Magnesium	NS	NS	6,270	5,650	4,610	10,300	9,380	9,720	11,000	16,200	18,400	8,910	8,360
Manganese	5,500	2,000	477	442	535	401	446	394	422	446	376	373	373
Nickel	4,600	140	20.8	22.1 J	105 J	18.7	19.6	27.1	22.0	16.1	15.5	17.3	18.3
Selenium	1,200	36	1.3 J	1.4 J	8.5	1.5 J	1.7 J	2.3 J	1.2 J	0.45 J	0.95 J	0.75 J	1.0 J
Silver	1,200	36	0.33 J	0.42 J	8.0 J	0.33 J	0.3 J	0.44 J	0.99	0.21 J	0.14 J	0.26 J	0.22 J
Sodium	NS	NS	474 U	471 U	448 U	426 U	464 U	469 U	482 U	418 U	442 U	109 J	115 J
Thallium	2.3	NS	0.57 J	0.18 J	8.1 J	1.3 J	0.77 J	0.52 J	1.9 J	0.63 J	0.31 J	2.20 U	2.20 U
Vanadium	1,200	NS	19.7	20.6 J	102 J	23.1	24.2	25.8	25.9	21.3	17.9	17.0	17.0
Zinc	70,000	2,200	1,460	1,240	1,240	354	266	356	355	306	69.7	197	212
Potassium	NS	NS	821	796	736	898	1,170	1,430	1,370	1,260	1,300	852	757
Tin	NS	NS	17.2	21.4	18.6	34.0	18.3	41.3	26.0	5.3	3.3 J	8.8	7.9

RST 3 Sample ID	EPA RMLs for Residential Soil ¹	NYSDEC Remedial Program SCOs for Residential Soil ²	P0020-SS03-0612-01	P0020-SS03-1224-01	P0020-SS04-0001-01	P0020-SS04-0106-01	P0020-SS04-0612-01	P0020-SS04-1224-01	P0020-SS05-0001-01	P0020-SS05-0106-01	P0020-SS05-0612-01	P0020-SS05-1224-01	P0020-SS06-0001-01
CLP Sample ID			MBCT07	MBCT08	MBCT09	MBCT10	MBCT11	MBCT12	MBCSY4	MBCSY5	MBCSY6	MBCSY7	MBCSY0
Sampling Date			7/9/2015	7/9/2015	7/9/2015	7/9/2015	7/9/2015	7/9/2015	7/8/2015	7/8/2015	7/8/2015	7/8/2015	7/8/2015
Sample Depth (in)			6-12	12-24	0-1	1-6	6-12	12-24	0-1	1-6	6-12	12-24	0-1
Sample Matrix			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Aluminum	230,000	NS	7,790	7,520	7,220	7,190	8,230	7,720	8,550	7,670	6,620	8,600	7,920
Antimony	94	NS	1.3 J	0.63 J	0.6 J	5.0 U	5.4 U	5.0 U	5.6 U	5.1 U	4.8 U	0.56 J	5.7 U
Arsenic	67	16	10.3	8.6	7.6	5.9	14.9	35.8	9.7	12.7	21.1	5.3	6.6
Barium	46,000	350	95.7	84.3	84.7	94.6	124	93.4	91.5	87.5	101	89.3	83.2
Beryllium	470	14	0.45	0.38 J	0.41 J	0.37 J	0.48	0.4 J	0.42 J	0.39 J	0.33 J	0.41 J	0.39 J
Cadmium	210	2.5	1.9	1.5	1.8	1.7	2.1	1.4	1.7	1.6	1.4	1.3	1.6
Calcium	NS	NS	75,700	52,400	28,600	58,000	48,000	51,100	23,000	24,500	32,400	39,500	18,700
Chromium	NS*	NS**	12.7	14.2	18.7	11.9	13.7	13.1	14.3	12.4	10.8	12.8	12.8
Cobalt	70	NS	3.4 J	4.9	3.1 J	2.7 J	2.9 J	3.0 J	3.3 J	3.5 J	2.4 J	3.4 J	3.3 J
Copper	9,400	270	139	76.4	180	187	203	57.7	183	238	175	50.2	140
Iron	160,000	NS	18,600	17,800	17,200	15,700	18,800	16,000	19,700	18,700	14,900	17,200	18,600
Lead	400	400	154	91.2	175	168	217	152	168	178	220	123	129
Magnesium	NS	NS	12,600	13,400	10,700	14,000	9,810	13,900	9,820	9,140	9,140	12,900	9,510
Manganese	5,500	2,000	440	609	492	377	473	352	424	425	397	364	414
Nickel	4,600	140	18.5	19.2	20.2	18.3	19.9	15.5	23.6	22.6	15.1	16.2	21.3
Selenium	1,200	36	0.75 J	0.85 J	1.3 J	0	1.2 J	0.87 J	1.6 J	1.4 J	0.84 J	1.1 J	1.4 J
Silver	1,200	36	0.18 J	0.19 J	0.31 J	0.82 J	0.27 J	0.27 J	0.3 J	0.26 J	0.2 J	0.18 J	0.28 J
Sodium	NS	NS	132 J	138 J	125 J	140 J	136 J	136 J	464 U	423 U	403 U	134 J	473 U
Thallium	2.3	NS	2.1 U	2.00 U	2.2 U	2.1 U	2.20 U	2.10 U	0.5 J	0.68 J	2.0 U	2.10 U	0.56 J
Vanadium	1,200	NS	18.5	19.7	19.3	16.9	21.2	18.3	20.9	19.4	16.9	20.8	19.4
Zinc	70,000	2,200	274	127	334	301	390	169	188	207	272	114	167
Potassium	NS	NS	929	901	1,100	1,160	962	998	1,250	1,030	826	1,050	1,280
Tin	NS	NS	12.6	9.8	19.7	20.5	35.1	8.4	29.0	25.0	30.4	15.5	16.0

Notes:
All soil data reported in milligrams per kilogram (mg/kg).
All rinsate blank data reported in micrograms per liter (µg/L).
Detected concentrations are **Bolded**.
J - Indicates the reported value is an estimate.
U -Indicates the analyte was analyzed for but not detected.
R - Indicates the reported value was rejected.

¹ Standards obtained from the United States Environmental Protection Agency (EPA) Removal Management Levels (RMLs) for Residential Soil using a 10⁻⁴ Risk Level for Carcinogens or a Hazard Quotient (HQ) of 3 for Non-Carcinogens, January 2015.

² Standards obtained from the New York State Department of Environmental Conservation (NYSDEC) Remedial Program Soil Cleanup Objectives (SCOs) for Residential Soil, December 14, 2006.

*No standard for total chromium; EPA RMLs for Residential Soil are 120,000 mg/kg for trivalent chromium and 30 mg/kg for hexavalent chromium.
**No standard for total chromium; NYSDEC Remedial Program SCOs for Residential Soil are 36 mg/kg for trivalent chromium and 22 mg/kg for hexavalent chromium.

Results at or exceeding NYSDEC Remedial Program SCOs for Residential Soil highlighted yellow.
Non-Detect Results at or exceeding NYSDEC Remedial Program SCOs for Residential Soil highlighted green.
Results at or exceeding EPA RMLs for Residential Soil highlighted red. The detection also exceeds the NYSDEC SCO for Residential Soil, if one exists.
Non-Detect Results at or exceeding EPA RMLs for Residential Soil highlighted orange. The detection also exceeds the NYSDEC SCO for Residential Soil, if one exists.

Table 1b: Validated Analytical Data Summary- TAL Metals
Lumen Bearing Offsite Assessment
June 30 to July 9, 2015

RST 3 Sample ID	EPA RMLs for Residential Soil ¹	NYSDEC Remedial Program SCOs for Residential Soil ²	P0020-SS06-0106-01	P0020-SS06-0612-01	P0020-SS06-1224-01	P0020-SS07-0001-01	P0020-SS07-0106-01	P0020-SS07-0106-02	P0020-SS07-0612-01	P0020-SS07-1224-01	P0020-SS08-0001-01	P0020-SS08-0106-01	P0020-SS08-0612-01
CLP Sample ID			MBCSY1	MBCSY2	MBCSY3	MBCSX5	MBCSX6	MBCSX7	MBCSX8	MBCSX9	MBCSX1	MBCSX2	MBCSX3
Sampling Date			7/8/2015	7/8/2015	7/8/2015	7/8/2015	7/8/2015	7/8/2015	7/8/2015	7/8/2015	7/8/2015	7/8/2015	7/8/2015
Sample Depth (in)			1-6	6-12	12-24	0-1	1-6	1-6	6-12	12-24	0-1	1-6	6-12
Sample Matrix			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Aluminum	230,000	NS	7,750	8,930	13,000	8,920	8,540	8,630	11,100	11,900	8,210	7,260	8,720
Antimony	94	NS	5.4 U	5.3 U	0.61 J	0.62 J	5.1 U	0.55 J	0.88 J	5.2 U	5.5 U	0.67 J	0.53 J
Arsenic	67	16	7.1	10.7	6.3	8.1	8.0	8.3	13.4	4.7	9.6	8.5	6.4
Barium	46,000	350	74.2	235	135	101	93.9	116	258	124	124	121	104
Beryllium	470	14	0.38 J	0.72	0.62	0.44 J	0.45	0.45	0.5	0.53	0.43 J	0.44 J	0.45
Cadmium	210	2.5	1.6	2.5	1.8	1.9	1.8	2.7	5.2	1.9	1.9	2.0	1.7
Calcium	NS	NS	17,400	25,600	8,880	14,600	13,900	27,500	18,900	43,900	18,800	27,800	62,200
Chromium	NS*	NS**	12.4	17.6	17.4	14.6	13.7	15.9	17.1	16.6	16.5	14.5	14.5
Cobalt	70	NS	3.7 J	3.7 J	12.1	3.5 J	3.8 J	3.2 J	5.4	4.7	2.1 J	2.6 J	5.6
Copper	9,400	270	153	336	31.3	178	167	213	450	58.8	207	215	65.3
Iron	160,000	NS	18,500	23,300	26,300	21,000	20,500	23,000	25,700	21,300	21,400	19,800	20,000
Lead	400	400	109	5,420	54.9	204	170	269	1,410	129	245	287	116
Magnesium	NS	NS	8,570	10,900	5,840	6,070	6,090	6,870	6,850	14,800	10,100	11,800	20,700
Manganese	5,500	2,000	442	479	1,230	422	438	439	844	447	389	401	450
Nickel	4,600	140	22.3	26.7	21.5	24.1	24.1	26.5	24.6	22.1	22.2	22.8	21.6
Selenium	1,200	36	1.0 J	1.1 J	1.5 J	1.7 J	1.6 J	1.9 J	2.1 J	1.3 J	2.1 J	1.8 J	1.1 J
Silver	1,200	36	0.27 J	0.55 J	0.35 J	0.34 J	0.32 J	0.35 J	0.47 J	0.78 J	0.91 J	0.34 J	0.2 J
Sodium	NS	NS	448.0 U	443 U	441 U	450 U	97.5 J	441 U	451 U	433 U	110 J	113 J	168 J
Thallium	2.3	NS	0.52 J	0.96 J	1.0 J	0.54 J	2.10 U J	1.0 J	1.4 J	2.0 J	2.3 U	2.30 U	2.10 U
Vanadium	1,200	NS	19.0	24.4	29.8	21.4	20.6	21.2	23.2	25.4	20.4	19.6	21.3
Zinc	70,000	2,200	155	400	88.3	242	214 J	474	570	161	315	328	134
Potassium	NS	NS	996	1,050	1,030	1,120	950	1,150	1,140	1,660	1,090	999	1,460
Tin	NS	NS	18.0	63.0	3.5 J	25.5	21.8	29.5	30.2	8.3	40.4	30.0	8.8

RST 3 Sample ID	EPA RMLs for Residential Soil ¹	NYSDEC Remedial Program SCOs for Residential Soil ²	P0020-SS08-1224-01	P0020-SS09-0001-01	P0020-SS09-0106-01	P0020-SS09-0612-01	P0020-SS09-1224-01	P0020-SS10-0001-01	P0020-SS10-0106-01	P0020-SS10-0106-02	P0020-SS10-0612-01	P0020-SS10-1224-01	P0020-SS11-0001-01
CLP Sample ID			MBCSX4	MBCT13	MBCT14	MBCT15	MBCT16	MBCT17	MBCT18	MBCT19	MBCT20	MBCT21	MBCT00
Sampling Date			7/8/2015	7/9/2015	7/9/2015	7/9/2015	7/9/2015	7/9/2015	7/9/2015	7/9/2015	7/9/2015	7/9/2015	7/8/2015
Sample Depth (in)			12-24	0-1	1-6	6-12	12-24	0-1	1-6	1-6	6-12	12-24	0-1
Sample Matrix			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Aluminum	230,000	NS	9,660	8,330	7,530	7,630	10,700	7,070	5,570	5,600	5,750	8,890	7,650
Antimony	94	NS	5.4 U	5.9 U	5.3 U	4.9 U	5.1 U	5.9 U	5.1 U	5.2 U	4.9 U	5.2 U	6.1 U
Arsenic	67	16	4.8	8.3	12.0	9.4	6.4	5.8	5.5	5.5	4.2	5.3	6.7
Barium	46,000	350	113	97.5	87.9	118	107	71.4	69.2	59.7	116	340	90.2
Beryllium	470	14	0.45 J	0.39 J	0.39 J	0.4 J	0.47	0.35 J	0.32 J	0.32 J	0.38 J	0.43 J	0.4 J
Cadmium	210	2.5	1.5	1.5	2.0	1.5	1.3	1.3	1.3	1.3	1.0	1.2	1.6
Calcium	NS	NS	56,200	26,100	55,100	54,700	33,700	18,300	14,300 J	23,900 J	83,600	61,700	15,400
Chromium	NS*	NS**	15.3	17.7	15.4	16.5	15.9	14.5	10.9	10.6	9.6	13.4	17.9
Cobalt	70	NS	3.3 J	2.3 J	2.2 J	2.4 J	4.5	2.4 J	2.2 J	2.2 J	2.1 J	4.0 J	2.9 J
Copper	9,400	270	24.6	114	261	219	36.9	156	273	287	120	27.1	306
Iron	160,000	NS	20,400	16,800	18,100	16,100	19,300	15,200	14,600	14,100	11,000	17,300	17,800
Lead	400	400	137	136	176	231	131	115	116 J	456 J	348	948	187
Magnesium	NS	NS	21,900	6,930	7,240	10,200	12,500	7,340	5,800	6,350	16,200	17,500	7,440
Manganese	5,500	2,000	493	413	459	339	406	347	296	304	320	417	376
Nickel	4,600	140	17.8	17.8	22.1	18.4	17.5	19.4	20.3	20.7	15.0	17.2	25.6
Selenium	1,200	36	3.2 U	1.4 J	1.7 J	1.1 J	1.0 J	1.2 J	1.0 J	1.1 J	0.85 J	0.81 J	1.2 J
Silver	1,200	36	0.89 J	0.98 U	0.89 U	0.81 U	0.84 U	0.98 U	0.26 J	0.23 J	0.11 J	0.19 J	1.02 U
Sodium	NS	NS	166 J	488 U	444 U	406 U	421 U	491 U	87.7 J	90.6 J	126 J	154 J	508 U
Thallium	2.3	NS	2.3 U	2.40 U	2.20 U	2.0 U	2.1 U	2.50 U J	0.24 J	2.2 U	2.0 U	2.2 U	2.5 U
Vanadium	1,200	NS	22.5	18.4	18.7	17.6	23.2	16.9	14.1	14.1	12.5	20.3	19.2
Zinc	70,000	2,200	96.5	318	554	256	94.9	240	183	189	132	158	232
Potassium	NS	NS	1,510	823	732	848	1,130	858	615	658	670	1,200	1,270
Tin	NS	NS	8.0	12.9	25.5	22.8	6.8	17.4	32.9	30.1	13.3	9.6	39.7

Notes:
All soil data reported in milligrams per kilogram (mg/kg).
All rinsate blank data reported in micrograms per liter (µg/L).
Detected concentrations are **Bolded**.
J - Indicates the reported value is an estimate.
U -Indicates the analyte was analyzed for but not detected.
R - Indicates the reported value was rejected.

¹ Standards obtained from the United States Environmental Protection Agency (EPA) Removal Management Levels (RMLs) for Residential Soil using a 10⁻⁴ Risk Level for Carcinogens or a Hazard Quotient (HQ) of 3 for Non-Carcinogens, January 2015.

² Standards obtained from the New York State Department of Environmental Conservation (NYSDEC) Remedial Program Soil Cleanup Objectives (SCOs) for Residential Soil, December 14, 2006.

*No standard for total chromium; EPA RMLs for Residential Soil are 120,000 mg/kg for trivalent chromium and 30 mg/kg for hexavalent chromium.

**No standard for total chromium; NYSDEC Remedial Program SCOs for Residential Soil are 36 mg/kg for trivalent chromium and 22 mg/kg for hexavalent chromium.

Results at or exceeding NYSDEC Remedial Program SCOs for Residential Soil highlighted yellow.

Non-Detect Results at or exceeding NYSDEC Remedial Program SCOs for Residential Soil highlighted green.

Results at or exceeding EPA RMLs for Residential Soil highlighted red. The detection also exceeds the NYSDEC SCO for Residential Soil, if one exists.

Non-Detect Results at or exceeding EPA RMLs for Residential Soil highlighted orange. The detection also exceeds the NYSDEC SCO for Residential Soil, if one exists.

Table 1b: Validated Analytical Data Summary- TAL Metals
Lumen Bearing Offsite Assessment
June 30 to July 9, 2015

RST 3 Sample ID	EPA RMLs for Residential Soil ¹	NYSDEC Remedial Program SCOs for Residential Soil ²	P0020-SS11-0106-01	P0020-SS11-0612-01	P0020-SS11-1224-01	P0020-SS12-0001-01	P0020-SS12-0106-01	P0020-SS12-0612-01	P0020-SS12-1224-01	P0020-SS13-0001-01	P0020-SS13-0106-01
CLP Sample ID			MBCT01	MBCT02	MBCT03	MBCSZ6	MBCSZ7	MBCSZ8	MBCSZ9	MBCSZ2	MBCSZ3
Sampling Date			7/8/2015	7/8/2015	7/8/2015	7/8/2015	7/8/2015	7/8/2015	7/8/2015	7/8/2015	7/8/2015
Sample Depth (in)			1-6	6-12	12-24	0-1	1-6	6-12	12-24	0-1	1-6
Sample Matrix			Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Aluminum	230,000	NS	7,980	7,810	9,740	7,720	7,070	6,820	9,510	7,370	7,190
Antimony	94	NS	5.2 U	4.7 U	5.0 U	6.0 U	5.3 U	4.9 U	4.7 U	5.9 U	5.2 U
Arsenic	67	16	8.4	7.3	5.1	9.1	14.5	5.8	4.9	7.5	8.6
Barium	46,000	350	98.5	122	111	117	219	99.4	108	63.9	71.4
Beryllium	470	14	0.43 J	0.44	0.43	0.47 J	0.54	0.41 J	0.42	0.38 J	0.39 J
Cadmium	210	2.5	1.6	1.8	1.5	2.4	2.9	1.3	1.3	1.4	1.7
Calcium	NS	NS	16,300	43,200	52,100	20,500	15,200	34,300	62,500	8,640	9,130
Chromium	NS*	NS**	15.9	17.3	15.5	25.8	22.7	11.7	14.6	12.7	12.7
Cobalt	70	NS	3.3 J	2.7 J	3.5 J	3.1 J	3.4 J	3.4 J	5.9	3.3 J	3.3 J
Copper	9,400	270	434	367	57.9	908	1,440	140	56.5	278	368
Iron	160,000	NS	19,100	19,600	19,300	22,300	26,200	16,700	19,100	18,100	20,300
Lead	400	400	229	291	658	373	1,030	139	88.8	98.8	126
Magnesium	NS	NS	8,220	11,900	18,300	8,020	6,260	11,800	19,400	5,050	5,110
Manganese	5,500	2,000	396	383	435	443	621	337	567	384	444
Nickel	4,600	140	28.2	22.1	18.3	43.5	50.3	16.7	20.2	25.9	28.2
Selenium	1,200	36	1.3 J	1.2 J	1.0 J	2.3 J	2.7 J	1.7 J	1.2 J	1.4 J	1.5 J
Silver	1,200	36	0.87 U	0.78 U	0.830 U	1.01 U	0.89 U	0.82 U	0.78 U	0.33 J	0.38 J
Sodium	NS	NS	434 U	389 U	416 U	504 U	443 U	411 U	392 U	83.4 J	89.7 J
Thallium	2.3	NS	2.2 U	1.9 U	2.1 U	2.5 U	2.2 U	2.1 U	2.00 U	0.25 U	2.20 U
Vanadium	1,200	NS	20.2	19.5	22.0	21.3	23.0	16.9	21.7	17.6	18.3
Zinc	70,000	2,200	251	341	143	382	517	149	89.1	164	172
Potassium	NS	NS	1,010	1,080	1,490	1,340	952	987	1,340	857	746
Tin	NS	NS	43.2	43.1	17.1	101	144	19.0	6.4	38.7	41.8

RST 3 Sample ID	EPA RMLs for Residential Soil ¹	NYSDEC Remedial Program SCOs for Residential Soil ²	P0020-SS13-0612-01	P0020-SS13-1224-01	P0020-SS14-0001-01	P0020-SS14-0106-01	P0020-SS14-0612-01	P0020-SS14-1224-01	RB-150708	RB-150709	
CLP Sample ID			MBCSZ4	MBCSZ5	MBCSY8	MBCSY9	MBCSZ0	MBCSZ1	MBCT04	MBCT22	
Sampling Date			7/8/2015	7/8/2015	7/8/2015	7/8/2015	7/8/2015	7/8/2015	7/8/2015	7/9/2015	
Sample Depth (in)			6-12	12-24	0-1	1-6	6-12	12-24	N/A	N/A	
Sample Matrix			Soil	Soil	Soil	Soil	Soil	Soil	Rinsate Blank	Rinsate Blank	
Aluminum	230,000	NS	7,550	9,590	6,290	7,500	4,170	3,240	200 U	200 U	
Antimony	94	NS	5.2 U	5.1 U	5.5 U	5.2 U	0.75 J	0.85 J	60 U	60 U	
Arsenic	67	16	20.0	5.8	7.8	16.0	12.7	9.5	2.4 J	10 U	
Barium	46,000	350	189	103	54.8	71.7	105	69.4	200 U	200 U	
Beryllium	470	14	0.53	0.44	0.32 J	0.44	0.57	0.52	5 U	5 U	
Cadmium	210	2.5	2.4	1.3	1.3	1.3	1.8	1.0	5 U	5 U	
Calcium	NS	NS	23,500	40,800	10,800	9,490	6,970	6,750	5,000 U	5,000 U	
Chromium	NS*	NS**	16.5	15.0	10.1	13.9	9.5	6.5	10 U	10 U	
Cobalt	70	NS	2.9 J	4.6	3.6 J	4.1 J	4.1 J	7.6	50 U	50 U	
Copper	9,400	270	417	51.2	61.2	111	254	122	25 U	25 U	
Iron	160,000	NS	25,500	19,400	16,600	20,200	24,100	11,700	100 U	100 U	
Lead	400	400	370	266	48.8	68.1	191	124	10 U	10 U	
Magnesium	NS	NS	8,410	14,600	4,630	5,270	3,170	1,410	5,000 U	5,000 U	
Manganese	5,500	2,000	373	417	408	461	386	246	15 U	15 U	
Nickel	4,600	140	24.7	17.7	20.0	24.6	18.5	15.1	40 U	40 U	
Selenium	1,200	36	2.2 J	1.4 J	1.1 J	1.6 J	4.1	6.7	35 U	35 U	
Silver	1,200	36	0.87 U	0.85 U	0.23 J	0.87 U	0.25 J	0.33 J	10 U	10 U	
Sodium	NS	NS	434 U	426 U	70.5 J	68.4 J	89.7 J	69.7 J	5,000 U	5,000 U	
Thallium	2.3	NS	2.2 U	2.1 U	2.30 U	2.2 U	2.3	2.2 U	25 U	25 U	
Vanadium	1,200	NS	20.3	22.4	15.3	18.2	14.0	11.8	50 U	50 U	
Zinc	70,000	2,200	509	117	131	152	319	179	60 U	60 U	
Potassium	NS	NS	850	1,320	629	650	727	790	5,000 U	5,000 U	
Tin	NS	NS	41.4	11.3	5.1	10.6	30.2	9.1	7 U	7 U	

Notes:
All soil data reported in milligrams per kilogram (mg/kg).
All rinsate blank data reported in micrograms per liter (µg/L).
Detected concentrations are **Bolded**.
J - Indicates the reported value is an estimate.
U -Indicates the analyte was analyzed for but not detected.
R - Indicates the reported value was rejected.

¹ Standards obtained from the United States Environmental Protection Agency (EPA) Removal Management Levels (RMLs) for Residential Soil using a 10⁻⁴ Risk Level for Carcinogens or a Hazard Quotient (HQ) of 3 for Non-Carcinogens, January 2015.

² Standards obtained from the New York State Department of Environmental Conservation (NYSDEC) Remedial Program Soil Cleanup Objectives (SCOs) for Residential Soil, December 14, 2006.

*No standard for total chromium; EPA RMLs for Residential Soil are 120,000 mg/kg for trivalent chromium and 30 mg/kg for hexavalent chromium.

**No standard for total chromium; NYSDEC Remedial Program SCOs for Residential Soil are 36 mg/kg for trivalent chromium and 22 mg/kg for hexavalent chromium.

Results at or exceeding NYSDEC Remedial Program SCOs for Residential Soil highlighted yellow.

Non-Detect Results at or exceeding NYSDEC Remedial Program SCOs for Residential Soil highlighted green.

Results at or exceeding EPA RMLs for Residential Soil highlighted red. The detection also exceeds the NYSDEC SCO for Residential Soil, if one exists.

Non-Detect Results at or exceeding EPA RMLs for Residential Soil highlighted orange. The detection also exceeds the NYSDEC SCO for Residential Soil, if one exists.

ATTACHMENT C

Chain of Custody Records

[illegible]

USEPA

Cooler #: 6

Date Shipped:

Carrier Name: Hand-Delivered

CHAIN OF CUSTODY RECORD

Case #: 45418

Contact Name: Peter Lisichenko

Contact Phone: 603-512-4350

No: 2-063015-101326-0002

Lab: ChemTech Consulting Group

Lab Contact: Divya Mehra

Lab Phone: 908-789-8900

Lab #	Sample #	CLP Sample #	Location	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Preservative	Depth	Depth_to	Lab QC	Analytical Method
	P0002-SS02-0001-01	MBCSF4	P0002-SS02	CLP TAL Total Metals/ICP-AES + Sn	Soil	6/30/2015	08:50	1	4 C	0	1	N	ICP-AES
	P0002-SS02-0106-01	MBCSF5	P0002-SS02	CLP TAL Total Metals/ICP-AES + Sn	Soil	6/30/2015	08:50	2	4 C	1	6	Y	ICP-AES
	P0002-SS02-0106-02	MBCSF6	P0002-SS02	CLP TAL Total Metals/ICP-AES + Sn	Soil	6/30/2015	08:50	1	4 C	1	6	N	ICP-AES
	P0002-SS02-0612-01	MBCSF7	P0002-SS02	CLP TAL Total Metals/ICP-AES + Sn	Soil	6/30/2015	08:52	1	4 C	6	12	N	ICP-AES
	P0002-SS02-1224-01	MBCSF8	P0002-SS02	CLP TAL Total Metals/ICP-AES + Sn	Soil	6/30/2015	08:52	1	4 C	12	24	N	ICP-AES
	P0002-SS01-0001-01	MBCSF9	P0002-SS01	CLP TAL Total Metals/ICP-AES + Sn	Soil	6/30/2015	09:34	1	4 C	0	1	N	ICP-AES
	P0002-SS01-0106-01	MBCSG0	P0002-SS01	CLP TAL Total Metals/ICP-AES + Sn	Soil	6/30/2015	09:34	1	4 C	1	6	N	ICP-AES
	P0002-SS01-0612-01	MBCSG1	P0002-SS01	CLP TAL Total Metals/ICP-AES + Sn	Soil	6/30/2015	09:35	1	4 C	6	12	N	ICP-AES
	P0002-SS01-1224-01	MBCSG2	P0002-SS01	CLP TAL Total Metals/ICP-AES + Sn	Soil	6/30/2015	09:40	1	4 C	12	24	N	ICP-AES

Special Instructions: Analyses via ICP-AES for CLP TAL Metals + Tin, 21 Days Preliminary Results, Standard Turn-Around-Time

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All Samples All Analytes	<i>Peter Lisichenko</i> USEPA	7/1/15			

USEPA

Cooler #: 6

DateShipped:

CarrierName: Hand-Delivered

CHAIN OF CUSTODY RECORD

Case #: 45418

Contact Name: Peter Lisichenko

Contact Phone: 603-512-4350

No: 2-063015-113919-0003

Lab: ChemTech Consulting Group


Lab Contact: Divya Mehta

Lab Phone: 908-789-8900

Lab #	Sample #	CLP Sample #	Location	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Preservative	Depth	Depth_to	Lab QC	Analytical Method
	P0003-SS01-0001-01	MBCSG3	P0003-SS01	CLP TAL Total Metals/CP-AES + Sn	Soil	6/30/2015	11:11	1	4 C	0	1	N	ICP-AES
	P0003-SS01-0106-01	MBCSG4	P0003-SS01	CLP TAL Total Metals/CP-AES + Sn	Soil	6/30/2015	11:11	1	4 C	1	6	N	ICP-AES
	P0003-SS01-0612-01	MBCSG5	P0003-SS01	CLP TAL Total Metals/CP-AES + Sn	Soil	6/30/2015	11:12	1	4 C	6	12	N	ICP-AES
	P0003-SS01-1224-01	MBCSG6	P0003-SS01	CLP TAL Total Metals/CP-AES + Sn	Soil	6/30/2015	11:12	1	4 C	12	24	N	ICP-AES
	P0003-SS02-0001-01	MBCSG7	P0003-SS02	CLP TAL Total Metals/CP-AES + Sn	Soil	6/30/2015	11:12	1	4 C	0	1	N	ICP-AES
	P0003-SS02-0106-01	MBCSG8	P0003-SS02	CLP TAL Total Metals/CP-AES + Sn	Soil	6/30/2015	11:12	1	4 C	1	6	N	ICP-AES
	P0003-SS02-0612-01	MBCSG9	P0003-SS02	CLP TAL Total Metals/CP-AES + Sn	Soil	6/30/2015	11:13	1	4 C	6	12	N	ICP-AES
	P0003-SS02-1224-01	MBCSH0	P0003-SS02	CLP TAL Total Metals/CP-AES + Sn	Soil	6/30/2015	11:13	2	4 C	12	24	Y	ICP-AES
	P0003-SS02-1224-02	MBCSH1	P0003-SS02	CLP TAL Total Metals/CP-AES + Sn	Soil	6/30/2015	11:14	1	4 C	12	24	N	ICP-AES

Special Instructions: Analyses via ICP-AES for CLP TAL Metals + Tin, 21 Days Preliminary Results, Standard Turn-Around-Time

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
At SMP 3		7/1/15			
At ANMBUS					

[illegible]

USEPA

Cooler #: 7

Date Shipped:

Carrier Name: Hand-Delivered

CHAIN OF CUSTODY RECORD

Case #: 45418

Contact Name: Peter Lisichenko

Contact Phone: 603-512-4350

No: 2-063015-134616-0005

Lab: ChemTech Consulting Group


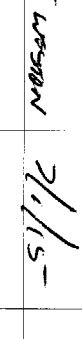
Lab Contact: Divya Mehta

Lab Phone: 908-769-8900

Lab #	Sample #	CLP Sample #	Location	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Preservative	Depth	Depth_10	Lab QC	Analytical Method
	P0005-SS01-0001-01	MBCSH6	P0005-SS01	CLP TAL Total Metals/ICP-AES + Sn	Soil	6/30/2015	13:22	1	4 C	0	1	N	ICP-AES
	P0005-SS01-0106-01	MBCSH7	P0005-SS01	CLP TAL Total Metals/ICP-AES + Sn	Soil	6/30/2015	13:22	1	4 C	1	6	N	ICP-AES
	P0005-SS01-0612-01	MBCSH8	P0005-SS01	CLP TAL Total Metals/ICP-AES + Sn	Soil	6/30/2015	13:23	1	4 C	6	12	N	ICP-AES
	P0005-SS01-1224-01	MBCSH9	P0005-SS01	CLP TAL Total Metals/ICP-AES + Sn	Soil	6/30/2015	13:23	1	4 C	12	24	N	ICP-AES
	P0005-SS02-0001-01	MBCSJ0	P0005-SS02	CLP TAL Total Metals/ICP-AES + Sn	Soil	6/30/2015	13:32	1	4 C	0	1	N	ICP-AES
	P0005-SS02-0106-01	MBCSJ1	P0005-SS02	CLP TAL Total Metals/ICP-AES + Sn	Soil	6/30/2015	13:32	1	4 C	1	6	N	ICP-AES
	P0005-SS02-0612-01	MBCSJ2	P0005-SS02	CLP TAL Total Metals/ICP-AES + Sn	Soil	6/30/2015	13:33	1	4 C	6	12	N	ICP-AES
	P0005-SS02-1224-01	MBCSJ3	P0005-SS02	CLP TAL Total Metals/ICP-AES + Sn	Soil	6/30/2015	13:33	1	4 C	12	24	N	ICP-AES
<hr/>													

Special Instructions: Analyses via ICP-AES for CLP TAL Metals + Tin, 21 Days Preliminary Results, Standard Turn-Around-Time

**SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #**

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES	 Peter Lisichenko	7/1/15			
ALL ANALYSES	 Divya Mehta				

USEPA

Cooler #: 6

Date Shipped:

Carrier Name: Hand-Delivered

CHAIN OF CUSTODY RECORD

Case #: 45418

Contact Name: Peter Lisichenko

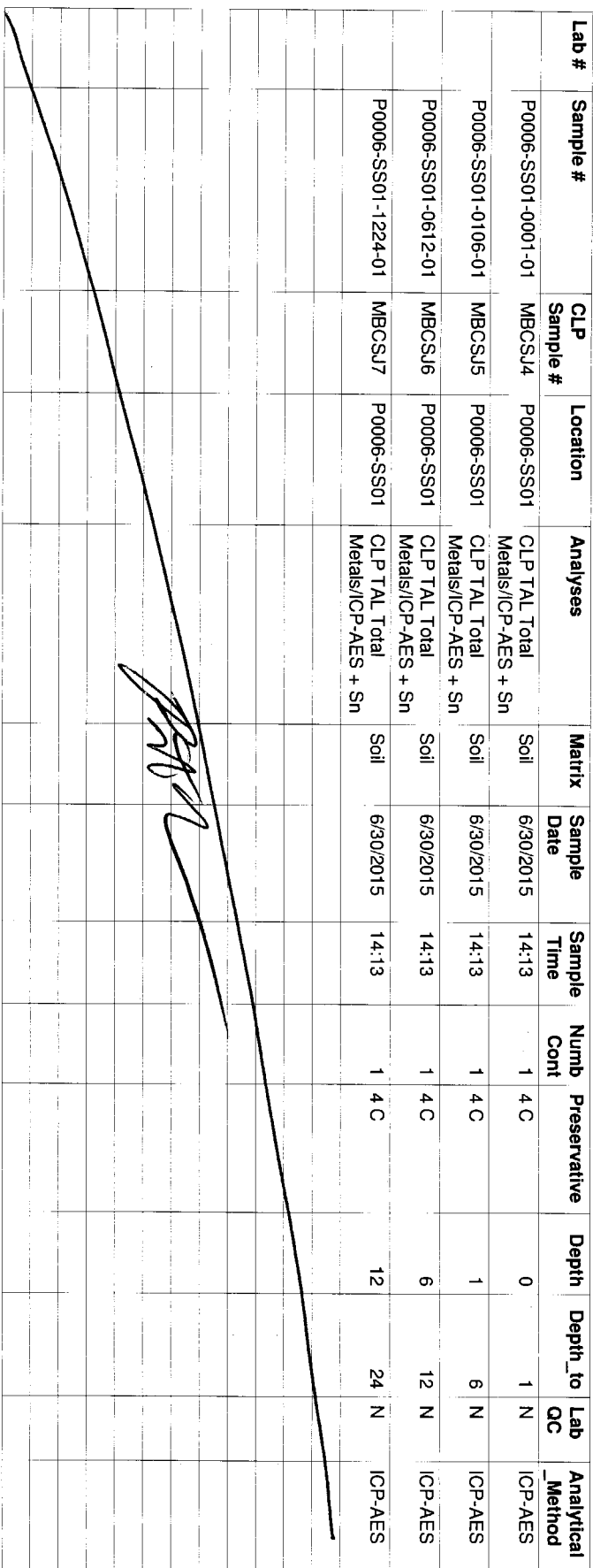
Contact Phone: 603-512-4350

No: 2-063015-143041-0006

Lab: ChemTech Consulting Group

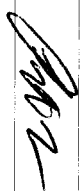
Lab Contact: Divya Mehta

Lab Phone: 908-789-8900

Lab #	Sample #	CLP Sample #	Location	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Preservative	Depth	Depth_to	Lab QC	Analytical Method
	P0006-SS01-0001-01	MBCSJ4	P0006-SS01	CLP TAL Total Metals/ICP-AES + Sn	Soil	6/30/2015	14:13	1	4 C	0	1	N	ICP-AES
	P0006-SS01-0106-01	MBCSJ5	P0006-SS01	CLP TAL Total Metals/ICP-AES + Sn	Soil	6/30/2015	14:13	1	4 C	1	6	N	ICP-AES
	P0006-SS01-0612-01	MBCSJ6	P0006-SS01	CLP TAL Total Metals/ICP-AES + Sn	Soil	6/30/2015	14:13	1	4 C	6	12	N	ICP-AES
	P0006-SS01-1224-01	MBCSJ7	P0006-SS01	CLP TAL Total Metals/ICP-AES + Sn	Soil	6/30/2015	14:13	1	4 C	12	24	N	ICP-AES
													

Special Instructions: Analyses via ICP-AES for CLP TAL Metals + Tin, 21 Days Preliminary Results, Standard Turn-Around-Time

**SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #**

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
AtL Smith the metals	 Watson	7/1/15			

USEPA

Cooler #: 7

Date Shipped:

Carrier Name: Hand-Delivered

CHAIN OF CUSTODY RECORD

Case #: 45418

Contact Name: Peter Lisichenko

Contact Phone: 603-512-4350

No: 2-063015-161229-0007

Lab: ChemTech Consulting Group


Lab Contact: Divya Mehta

Lab Phone: 908-789-8900

Lab #	Sample #	CLP Sample #	Location	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Preservative	Depth	Depth_to	Lab QC	Analytical Method
	P0007-SS01-0001-01	MBCSJ8	P0007-SS01	CLP TAL Total Metals/ICP-AES + Sn	Soil	6/30/2015	15:03	1	4 C	0	1	N	ICP-AES
	P0007-SS01-0106-01	MBCSJ9	P0007-SS01	CLP TAL Total Metals/ICP-AES + Sn	Soil	6/30/2015	15:03	1	4 C	1	6	N	ICP-AES
	P0007-SS01-0612-01	MBCSK0	P0007-SS01	CLP TAL Total Metals/ICP-AES + Sn	Soil	6/30/2015	15:04	2	4 C	6	12	Y	ICP-AES
	P0007-SS01-0612-02	MBCSK1	P0007-SS01	CLP TAL Total Metals/ICP-AES + Sn	Soil	6/30/2015	15:04	1	4 C	6	12	N	ICP-AES
	P0007-SS01-1224-01	MBCSK2	P0007-SS01	CLP TAL Total Metals/ICP-AES + Sn	Soil	6/30/2015	15:05	1	4 C	12	24	N	ICP-AES
	P0007-SS02-0001-01	MBCSK3	P0007-SS02	CLP TAL Total Metals/ICP-AES + Sn	Soil	6/30/2015	15:55	1	4 C	0	1	N	ICP-AES
	P0007-SS02-0106-01	MBCSK4	P0007-SS02	CLP TAL Total Metals/ICP-AES + Sn	Soil	6/30/2015	15:55	1	4 C	1	6	N	ICP-AES
	P0007-SS02-0612-01	MBCSK5	P0007-SS02	CLP TAL Total Metals/ICP-AES + Sn	Soil	6/30/2015	15:55	1	4 C	6	12	N	ICP-AES
	P0007-SS02-1224-01	MBCSK6	P0007-SS02	CLP TAL Total Metals/ICP-AES + Sn	Soil	6/30/2015	15:55	1	4 C	12	24	N	ICP-AES

Special Instructions: Analyses via ICP-AES for CLP TAL Metals + Tin, 21 Days Preliminary Results, Standard Turn-Around-Time

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
As Sampled M.C. Alvarez	 M.C. Alvarez	7/1/15			

USEPA

Cooler #: 7

Date Shipped:

Carrier Name: Hand-Delivered

CHAIN OF CUSTODY RECORD

Case #: 45418

Contact Name: Peter Lisichenko


Contact Phone: 603-512-4350

No: 2-063015-180135-0008

Lab: ChemTech Consulting Group

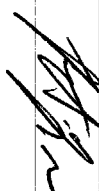
Lab Contact: Divya Mehta

Lab Phone: 908-789-8900

Lab #	Sample #	CLP Sample #	Location	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Preservative	Depth	Depth_to Lab QC	Analytical Method
	P0008-SS01-0001-01	MBCSK7	P0008-SS01	CLP TAL Total Metals/ICP-AES + Sn	Soil	6/30/2015	16:16	1	4 C	0	1 N	ICP-AES
	P0008-SS01-0106-01	MBCSK8	P0008-SS01	CLP TAL Total Metals/ICP-AES + Sn	Soil	6/30/2015	16:17	1	4 C	1	6 N	ICP-AES
	P0008-SS01-0612-01	MBCSK9	P0008-SS01	CLP TAL Total Metals/ICP-AES + Sn	Soil	6/30/2015	16:17	1	4 C	6	12 N	ICP-AES
	P0008-SS01-1224-01	MBCSL0	P0008-SS01	CLP TAL Total Metals/ICP-AES + Sn	Soil	6/30/2015	16:17	1	4 C	12	24 N	ICP-AES
												

Special Instructions: Analyses via ICP-AES for CLP TAL Metals + Tin, 21 Days Preliminary Results, Standard Turn-Around-Time

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
PLC SMR055		7/1/15	W. Simon		
PLC AMR055					

USEPA

Cooler #: 7

Date Shipped:

Carrier Name: Hand-Delivered

CHAIN OF CUSTODY RECORD

Case #: 45418

Contact Name: Peter Lisichenko

Contact Phone: 603-512-4350

No: 2-063015-180140-0009

Lab: ChemTech Consulting Group

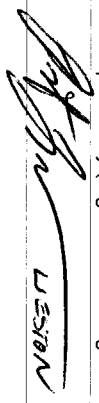
Lab Contact: Divya Mehta

Lab Phone: 908-789-8900

Lab #	Sample #	CLP Sample #	Location	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Preservative	Depth	Depth_to	Lab QC	Analytical Method
	P0009-SS01-0001-01	MBCSL1	P0009-SS01	CLP TAL Total Metals/ICP-AES + Sn	Soil	6/30/2015	16:59	1	4 C	0	1	N	ICP-AES
	P0009-SS01-0106-01	MBCSL2	P0009-SS01	CLP TAL Total Metals/ICP-AES + Sn	Soil	6/30/2015	16:59	2	4 C	1	6	Y	ICP-AES
	P0009-SS01-0106-02	MBCSL3	P0009-SS01	CLP TAL Total Metals/ICP-AES + Sn	Soil	6/30/2015	17:00	1	4 C	1	6	N	ICP-AES
	P0009-SS01-0612-01	MBCSL4	P0009-SS01	CLP TAL Total Metals/ICP-AES + Sn	Soil	6/30/2015	17:00	1	4 C	6	12	N	ICP-AES
	P0009-SS01-1224-01	MBCSL5	P0009-SS01	CLP TAL Total Metals/ICP-AES + Sn	Soil	6/30/2015	17:00	1	4 C	12	24	N	ICP-AES
	P0009-SS02-0001-01	MBCSL6	P0009-SS02	CLP TAL Total Metals/ICP-AES + Sn	Soil	6/30/2015	17:01	1	4 C	0	1	N	ICP-AES
	P0009-SS02-0106-01	MBCSL7	P0009-SS02	CLP TAL Total Metals/ICP-AES + Sn	Soil	6/30/2015	17:01	1	4 C	1	6	N	ICP-AES
	P0009-SS02-0612-01	MBCSL8	P0009-SS02	CLP TAL Total Metals/ICP-AES + Sn	Soil	6/30/2015	17:01	1	4 C	6	12	N	ICP-AES
	P0009-SS02-1224-01	MBCSL9	P0009-SS02	CLP TAL Total Metals/ICP-AES + Sn	Soil	6/30/2015	17:01	1	4 C	12	24	N	ICP-AES

Special Instructions: Analyses via ICP-AES for CLP TAL Metals + Tin, 21 Days Preliminary Results, Standard Turn-Around-Time

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Rec Samples All Analyses	 LESICENKO	7/1/15			

USEPA

Cooler #: 8

Date Shipped:

Carrier Name: Hand-Delivered

CHAIN OF CUSTODY RECORD

Case #: 45418

Contact Name: Peter Lisichenko

Contact Phone: 603-512-4350

No: 2-063015-180229-0010

Lab: ChemTech Consulting Group

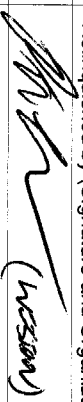
Lab Contact: Divya Mehta

Lab Phone: 908-789-8900

Lab #	Sample #	CLP Sample #	Location	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Preservative	Depth	Depth_to	Lab QC	Analytical Method
	P0010-SS01-0001-01	MBCSM0	P0010-SS01	CLP TAL Total Metals/CP-AES + Sn	Soil	6/30/2015	17:50	1	4 C	0	1	N	ICP-AES
	P0010-SS01-0106-01	MBCSM1	P0010-SS01	CLP TAL Total Metals/CP-AES + Sn	Soil	6/30/2015	17:50	1	4 C	1	6	N	ICP-AES
	P0010-SS01-0612-01	MBCSM2	P0010-SS01	CLP TAL Total Metals/CP-AES + Sn	Soil	6/30/2015	17:50	1	4 C	6	12	N	ICP-AES
	P0010-SS01-1224-01	MBCSM3	P0010-SS01	CLP TAL Total Metals/CP-AES + Sn	Soil	6/30/2015	17:51	1	4 C	12	24	N	ICP-AES
	P0010-SS02-0001-01	MBCSM4	P0010-SS02	CLP TAL Total Metals/CP-AES + Sn	Soil	6/30/2015	18:23	1	4 C	0	1	N	ICP-AES
	P0010-SS02-0106-01	MBCSM5	P0010-SS02	CLP TAL Total Metals/CP-AES + Sn	Soil	6/30/2015	18:23	1	4 C	1	6	N	ICP-AES
	P0010-SS02-0612-01	MBCSM6	P0010-SS02	CLP TAL Total Metals/CP-AES + Sn	Soil	6/30/2015	18:23	1	4 C	6	12	N	ICP-AES
	P0010-SS02-1224-01	MBCSM7	P0010-SS02	CLP TAL Total Metals/CP-AES + Sn	Soil	6/30/2015	18:23	1	4 C	12	24	N	ICP-AES
	RB-063015	MBCSM8	N/A	CLP TAL Total Metals/CP-AES + Sn	Water	6/30/2015	18:00	1	HNO3 pH<2			N	ICP-AES

Special Instructions: Analyses via ICP-AES for CLP TAL Metals + Tin, 21 Days Preliminary Results, Standard Turn-Around-Time

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSES	 (Lisichenko)	7/1/15			

USEPA

Cooler #: 8

Date Shipped:

Carrier Name: Hand-Delivered

CHAIN OF CUSTODY RECORD

Case #: 45418

Contact Name: Peter Lisichenko

Contact Phone: 603-512-4350

No: 2-063015-194953-0011

Lab: ChemTech Consulting Group

Lab Contact: Divya Mehta

Lab Phone: 908-789-8900

Lab #	Sample #	CLP Sample #	Location	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Preservative	Depth	Depth_to	Lab QC	Analytical Method
	P0011-SS01-0001-01	MBCSN9	P0011-SS01	CLP TAL Total Metals/CP-AES + Sn	Soil	6/30/2015	18:58	1	4 C	0	1	N	ICP-AES
	P0011-SS01-0106-01	MBCSN0	P0011-SS01	CLP TAL Total Metals/CP-AES + Sn	Soil	6/30/2015	18:58	1	4 C	1	6	N	ICP-AES
	P0011-SS01-0612-01	MBCSN1	P0011-SS01	CLP TAL Total Metals/CP-AES + Sn	Soil	6/30/2015	18:58	1	4 C	6	12	N	ICP-AES
	P0011-SS01-1224-01	MBCSN2	P0011-SS01	CLP TAL Total Metals/CP-AES + Sn	Soil	6/30/2015	18:58	1	4 C	12	24	N	ICP-AES
	P0011-SS02-0001-01	MBCSN3	P0011-SS02	CLP TAL Total Metals/CP-AES + Sn	Soil	6/30/2015	18:50	1	4 C	0	1	N	ICP-AES
	P0011-SS02-0106-01	MBCSN4	P0011-SS02	CLP TAL Total Metals/CP-AES + Sn	Soil	6/30/2015	18:50	1	4 C	1	6	N	ICP-AES
	P0011-SS02-0612-01	MBCSN5	P0011-SS02	CLP TAL Total Metals/CP-AES + Sn	Soil	6/30/2015	18:50	1	4 C	6	12	N	ICP-AES
	P0011-SS02-1224-01	MBCSN6	P0011-SS02	CLP TAL Total Metals/CP-AES + Sn	Soil	6/30/2015	18:50	1	4 C	12	24	N	ICP-AES
<i>[Signature]</i>													

Special Instructions: Analyses via ICP-AES for CLP TAL Metals + Tin, 21 Days Preliminary Results, Standard Turn-Around-Time

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES	<i>[Signature]</i>	7/1/15			
ALL ANALYSES	<i>[Signature]</i>				

USEPA

Cooler #: 8

DateShipped:

CarrierName: Hand-Delivered

CHAIN OF CUSTODY RECORD

Case #: 45418

Contact Name: Peter Lisichenko

Contact Phone: 603-512-4350

No: 2-070115-084650-0012

Lab: ChemTech Consulting Group

Lab Contact: Divya Mehta

Lab Phone: 908-789-8900

Lab #	Sample #	CLP Sample #	Location	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Preservative	Depth	Depth_to Lab QC	Analytical Method
	P0012-SS01-0001-01	MBCSN7	P0012-SS01	CLP TAL Total Metals/ICP-AES + Sn	Soil	7/1/2015	08:06	1	4 C	0	1	N ICP-AES
	P0012-SS01-0106-01	MBCSN8	P0012-SS01	CLP TAL Total Metals/ICP-AES + Sn	Soil	7/1/2015	08:08	1	4 C	1	6	N ICP-AES
	P0012-SS01-0612-01	MBCSN9	P0012-SS01	CLP TAL Total Metals/ICP-AES + Sn	Soil	7/1/2015	08:08	1	4 C	6	12	N ICP-AES
	P0012-SS01-1224-01	MBCSP0	P0012-SS01	CLP TAL Total Metals/ICP-AES + Sn	Soil	7/1/2015	08:08	1	4 C	12	24	N ICP-AES
	P0012-SS02-0001-01	MBCSP1	P0012-SS02	CLP TAL Total Metals/ICP-AES + Sn	Soil	7/1/2015	08:38	1	4 C	0	1	N ICP-AES
	P0012-SS02-0106-01	MBCSP2	P0012-SS02	CLP TAL Total Metals/ICP-AES + Sn	Soil	7/1/2015	08:38	1	4 C	1	6	N ICP-AES
	P0012-SS02-0612-01	MBCSP3	P0012-SS02	CLP TAL Total Metals/ICP-AES + Sn	Soil	7/1/2015	08:39	1	4 C	6	12	N ICP-AES
	P0012-SS02-1224-01	MBCSP4	P0012-SS02	CLP TAL Total Metals/ICP-AES + Sn	Soil	7/1/2015	08:39	1	4 C	12	24	N ICP-AES
<i>Peter Lisichenko</i>												

Special Instructions: Analyses via ICP-AES for CLP TAL Metals + Tin, 21 Days Preliminary Results, Standard Turn-Around-Time

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Mr. Samuels	<i>Peter Lisichenko</i>	7/1/15			
All Analytes	<i>Peter Lisichenko</i> (written)	7/1/15			

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All Samples the MALARIA	[Signature] (WESTON)	2/1/15			

USEPA

Cooler #: 9

DateShipped:

CarrierName: Hand-Delivered

CHAIN OF CUSTODY RECORD

Case #: 45418

Contact Name: Peter Lisichenko

Contact Phone: 603-512-4350

No: 2-070115-104039-0014

Lab: ChemTech Consulting Group

Lab Contact: Divya Mehta

Lab Phone: 908-789-8900

Lab #	Sample #	CLP Sample #	Location	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Preservative	Depth	Depth_to	Lab QC	Analytical Method
	P0014-SS01-0001-01	MBCSP9	P0014-SS01	CLP TAL Total Metals/ICP-AES + Sn	Soil	7/1/2015	10:20	1	4 C	0	1	N	ICP-AES
	P0014-SS01-0106-01	MBCSQ0	P0014-SS01	CLP TAL Total Metals/ICP-AES + Sn	Soil	7/1/2015	10:20	1	4 C	1	6	N	ICP-AES
	P0014-SS01-0612-01	MBCSQ1	P0014-SS01	CLP TAL Total Metals/ICP-AES + Sn	Soil	7/1/2015	10:20	1	4 C	6	12	N	ICP-AES
	P0014-SS01-1224-01	MBCSQ2	P0014-SS01	CLP TAL Total Metals/ICP-AES + Sn	Soil	7/1/2015	10:20	1	4 C	12	24	N	ICP-AES
	P0014-SS02-0001-01	MBCSQ3	P0014-SS02	CLP TAL Total Metals/ICP-AES + Sn	Soil	7/1/2015	10:37	1	4 C	0	1	N	ICP-AES
	P0014-SS02-0106-01	MBCSQ4	P0014-SS02	CLP TAL Total Metals/ICP-AES + Sn	Soil	7/1/2015	10:38	2	4 C	1	6	Y	ICP-AES
	P0014-SS02-0106-02	MBCSQ5	P0014-SS02	CLP TAL Total Metals/ICP-AES + Sn	Soil	7/1/2015	10:38	1	4 C	1	6	N	ICP-AES
	P0014-SS02-0612-01	MBCSQ6	P0014-SS02	CLP TAL Total Metals/ICP-AES + Sn	Soil	7/1/2015	10:38	1	4 C	6	12	N	ICP-AES
	P0014-SS02-1224-01	MBCSQ7	P0014-SS02	CLP TAL Total Metals/ICP-AES + Sn	Soil	7/1/2015	10:38	1	4 C	12	24	N	ICP-AES
<i>[Signature]</i>													

Special Instructions: Analyses via ICP-AES for CLP TAL Metals + Tin, 21 Days Preliminary Results, Standard Turn-Around-Time

**SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #**

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
<i>Mc Samples</i> <i>Mc Metals</i>	<i>[Signature]</i> <i>(Mc Metals)</i>	<i>7/1/15</i>			

USEPA

Cooler #: 9

Date Shipped:

Carrier Name: Hand-Delivered

CHAIN OF CUSTODY RECORD

Case #: 45418

Contact Name: Peter Lisichenko

Contact Phone: 603-512-4350

No: 2-070115-115802-0015

Lab: ChemTech Consulting Group

Lab Contact: Divya Mehta

Lab Phone: 908-789-8900

Lab #	Sample #	CLP Sample #	Location	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Preservative	Depth	Depth_to	Lab QC	Analytical Method
	P0015-SS01-0001-01	MBCSQ8	P0015-SS01	CLP TAL Total Metals/ICP-AES + Sn	Soil	7/1/2015	11:39	1	4 C	0	1	N	ICP-AES
	P0015-SS01-0106-01	MBCSQ9	P0015-SS01	CLP TAL Total Metals/ICP-AES + Sn	Soil	7/1/2015	11:39	1	4 C	1	6	N	ICP-AES
	P0015-SS01-0612-01	MBCSR0	P0015-SS01	CLP TAL Total Metals/ICP-AES + Sn	Soil	7/1/2015	11:39	1	4 C	6	12	N	ICP-AES
	P0015-SS01-1224-01	MBCSR1	P0015-SS01	CLP TAL Total Metals/ICP-AES + Sn	Soil	7/1/2015	11:39	1	4 C	12	24	N	ICP-AES
	P0015-SS02-0001-01	MBCSR2	P0015-SS02	CLP TAL Total Metals/ICP-AES + Sn	Soil	7/1/2015	11:59	1	4 C	0	1	N	ICP-AES
	P0015-SS02-0106-01	MBCSR3	P0015-SS02	CLP TAL Total Metals/ICP-AES + Sn	Soil	7/1/2015	11:59	1	4 C	1	6	N	ICP-AES
	P0015-SS02-0612-01	MBCSR4	P0015-SS02	CLP TAL Total Metals/ICP-AES + Sn	Soil	7/1/2015	11:59	1	4 C	6	12	N	ICP-AES
	P0015-SS02-1224-01	MBCSR5	P0015-SS02	CLP TAL Total Metals/ICP-AES + Sn	Soil	7/1/2015	11:59	1	4 C	12	24	N	ICP-AES
<i>Peter Lisichenko</i>													

Special Instructions: Analyses via ICP-AES for CLP TAL Metals + Tin, 21 Days Preliminary Results, Standard Turn-Around-Time

**SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #**

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All Samples	<i>Peter Lisichenko</i>	2/1/15			
All Analyses	<i>Peter Lisichenko</i>				

DateShipped:

CarrierName: Hand-Delivered

CHAIN OF CUSTODY RECORD

Case #: 45418

Contact Name: Peter Lisichenko

Contact Phone: 603-512-4350

No: 2-070115-125853-0016

Lab: ChemTech Consulting Group

Lab Contact: Divya Mehta

Lab Phone: 908-789-8900

[illegible]

Special Instructions: Analyses via ICP-AES for CLP TAL Metals + Tin, 21 Days Preliminary Results, Standard Turn-Around-Time

SAMPLES TRANSFERRED FROM	CHAIN OF CUSTODY #

[illegible]

USEPA

Cooler #: 9

Date Shipped:

Carrier Name: Hand-Delivered

CHAIN OF CUSTODY RECORD

Case #: 45418

Contact Name: Peter Lisichenko

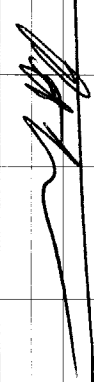
Contact Phone: 603-512-4350

No: 2-070115-161610-0017

Lab: ChemTech Consulting Group

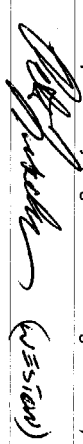
Lab Contact: Diya Mehta

Lab Phone: 908-789-8900

Lab #	Sample #	CLP Sample #	Location	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Preservative	Depth	Depth_to	Lab QC	Analytical Method
	P0017-SS01-0001-01	MBCSS0	P0017-SS01	CLP TAL Total Metals/ICP-AES + Sn	Soil	7/1/2015	14:18	1	4 C	0	1	N	ICP-AES
	P0017-SS01-0106-01	MBCSS1	P0017-SS01	CLP TAL Total Metals/ICP-AES + Sn	Soil	7/1/2015	14:18	1	4 C	1	6	N	ICP-AES
	P0017-SS01-0612-01	MBCSS2	P0017-SS01	CLP TAL Total Metals/ICP-AES + Sn	Soil	7/1/2015	14:18	1	4 C	6	12	N	ICP-AES
	P0017-SS01-1224-01	MBCSS3	P0017-SS01	CLP TAL Total Metals/ICP-AES + Sn	Soil	7/1/2015	14:18	1	4 C	12	24	N	ICP-AES
	P0017-SS02-0001-01	MBCSS4	P0017-SS02	CLP TAL Total Metals/ICP-AES + Sn	Soil	7/1/2015	14:28	1	4 C	0	1	N	ICP-AES
	P0017-SS02-0106-01	MBCSS5	P0017-SS02	CLP TAL Total Metals/ICP-AES + Sn	Soil	7/1/2015	14:28	1	4 C	1	6	N	ICP-AES
	P0017-SS02-0612-01	MBCSS6	P0017-SS02	CLP TAL Total Metals/ICP-AES + Sn	Soil	7/1/2015	14:28	1	4 C	6	12	N	ICP-AES
	P0017-SS02-1224-01	MBCSS7	P0017-SS02	CLP TAL Total Metals/ICP-AES + Sn	Soil	7/1/2015	14:28	1	4 C	12	24	N	ICP-AES
													

Special Instructions: Analyses via ICP-AES for CLP TAL Metals + Tin, 21 Days Preliminary Results, Standard Turn-Around-Time

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Per Samples Metal Analysis	 (revision)	7/1/15			

[illegible]

Special Instructions: Analyses via ICP-AES for CLP TAL Metals + Tin, 21 Days Preliminary Results, Standard Turn-Around-Time

SAMPLES TRANSFERRED FROM	CHAIN OF CUSTODY #

[illegible]

USEPA

Cooler #: 10

DateShipped:

CarrierName: Hand-Delivered

CHAIN OF CUSTODY RECORD

Case #: 45418

Contact Name: Peter Lisichenko

Contact Phone: 603-512-4350

No: 2-070115-171141-0019

Lab: ChemTech Consulting Group


Lab Contact: Divya Mehra

Lab Phone: 908-789-8900

Lab #	Sample #	CLP Sample #	Location	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Preservative	Depth	Depth_to	Lab QC	Analytical Method
	P0019-SS01-0001-01	MBCST3	P0019-SS01	CLP TAL Total Metals/ICP-AES + Sn	Soil	7/1/2015	16:30	1	4 C	0	1	N	ICP-AES
	P0019-SS01-0106-01	MBCST4	P0019-SS01	CLP TAL Total Metals/ICP-AES + Sn	Soil	7/1/2015	16:30	1	4 C	1	6	N	ICP-AES
	P0019-SS01-0612-01	MBCST5	P0019-SS01	CLP TAL Total Metals/ICP-AES + Sn	Soil	7/1/2015	16:30	1	4 C	6	12	N	ICP-AES
	P0019-SS01-1224-01	MBCST6	P0019-SS01	CLP TAL Total Metals/ICP-AES + Sn	Soil	7/1/2015	16:31	1	4 C	12	24	N	ICP-AES
	P0019-SS02-0001-01	MBCST7	P0019-SS02	CLP TAL Total Metals/ICP-AES + Sn	Soil	7/1/2015	17:05	1	4 C	0	1	N	ICP-AES
	P0019-SS02-0106-01	MBCST8	P0019-SS02	CLP TAL Total Metals/ICP-AES + Sn	Soil	7/1/2015	17:05	1	4 C	1	6	N	ICP-AES
	P0019-SS02-0612-01	MBCST9	P0019-SS02	CLP TAL Total Metals/ICP-AES + Sn	Soil	7/1/2015	17:06	1	4 C	6	12	N	ICP-AES
	P0019-SS02-1224-01	MBCSW0	P0019-SS02	CLP TAL Total Metals/ICP-AES + Sn	Soil	7/1/2015	17:06	1	4 C	12	24	N	ICP-AES
	RB-070115	MBCSW1	N/A	CLP TAL Total Metals/ICP-AES + Sn	Water	7/1/2015	17:00	1	HNO3 pH<2			N	ICP-AES

Special Instructions: Analyses via ICP-AES for CLP TAL Metals + Tin, 21 Days Preliminary Results, Standard Turn-Around-Time

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES AC 10/10/15	 (USEPA)	7/1/15			

USEPA CLP Inorganics COC (LAB COPY)

CHAIN OF CUSTODY RECORD

No: 2-070915-111836-0020

Date Shipped: 7/10/2015

Case #: 45418

Lab: ChemTech Consulting Group

Carrier/Name: Hand-Delivered

Contact Name: Peter Lisichenko

Lab Contact: Divya Mehta

Cooler #: 1

Contact Phone: 603-512-4350

Lab Phone: 908-789-8900

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
P0020-SS01-0001-01	MBCSW2	Soil/ RST	Composite	ICP-AES/Sn(21)/PR	1132 (4 C) (1)	P0020-SS01	07/08/2015 08:41	
P0020-SS01-0106-01	MBCSW3	Soil/ RST	Composite	ICP-AES/Sn(21)/PR	1133 (4 C) (2)	P0020-SS01	07/08/2015 08:44	
P0020-SS01-0106-02	MBCSW4	Soil/ RST	Composite	ICP-AES/Sn(21)/PR	1134 (4 C) (1)	P0020-SS01	07/08/2015 08:45	
P0020-SS01-0612-01	MBCSW5	Soil/ RST	Composite	ICP-AES/Sn(21)/PR	1135 (4 C) (1)	P0020-SS01	07/08/2015 08:45	
P0020-SS01-1224-01	MBCSW6	Soil/ RST	Composite	ICP-AES/Sn(21)/PR	1136 (4 C) (1)	P0020-SS01	07/08/2015 08:45	
P0020-SS02-0001-01	MBCSW7	Soil/ RST	Composite	ICP-AES/Sn(21)/PR	1137 (4 C) (1)	P0020-SS02	07/08/2015 09:40	
P0020-SS02-0106-01	MBCSW8	Soil/ RST	Composite	ICP-AES/Sn(21)/PR	1138 (4 C) (1)	P0020-SS02	07/08/2015 09:44	
P0020-SS02-0612-01	MBCSW9	Soil/ RST	Composite	ICP-AES/Sn(21)/PR	1139 (4 C) (1)	P0020-SS02	07/08/2015 09:44	
P0020-SS02-1224-01	MBCSX0	Soil/ RST	Composite	ICP-AES/Sn(21)/PR	1140 (4 C) (1)	P0020-SS02	07/08/2015 09:46	
P0020-SS07-0001-01	MBCSX5	Soil/ RST	Composite	ICP-AES/Sn(21)/PR	1145 (4 C) (1)	P0020-SS07	07/08/2015 11:02	
P0020-SS07-0106-01	MBCSX6	Soil/ RST	Composite	ICP-AES/Sn(21)/PR	1146 (4 C) (2)	P0020-SS07	07/08/2015 11:02	

Sample(s) to be used for Lab QC: P0020-SS01-0106-01 Tag 1133, P0020-SS07-0106-01 Tag 1146 - Special Instructions: Analyses via ICP-AES for CLP TAL Metals + Tin, 21 Days Preliminary Results, Standard Turn-Around-Time

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: ICP-AES/Sn=CLP TAL Total Metals/ICP-AES + Sn

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL METALS	<i>Bob Jones</i>	7/9/15			

USEPA CLP Inorganics COC (LAB COPY)

DateShipped: 7/10/2015
 CarrierName: Hand-Delivered
 Cooler #: 1

CHAIN OF CUSTODY RECORD

Case #: 45418
 Contact Name: Peter Lisichenko
 Contact Phone: 603-512-4350

No: 2-070915-111836-0020

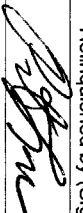
Lab: ChemTech Consulting Group
 Lab Contact: Divya Mehra
 Lab Phone: 908-789-8900

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
P0020-SS07-0106-02	MBCSX7	Soil/ RST	Composite	ICP-AES/Sn(21)/PR	1147 (4 C) (1)	P0020-SS07	07/08/2015 11:02	
P0020-SS07-0612-01	MBCSX8	Soil/ RST	Composite	ICP-AES/Sn(21)/PR	1148 (4 C) (1)	P0020-SS07	07/08/2015 11:02	
P0020-SS07-1224-01	MBCSX9	Soil/ RST	Composite	ICP-AES/Sn(21)/PR	1149 (4 C) (1)	P0020-SS07	07/08/2015 11:03	
P0020-SS06-0001-01	MBCSY0	Soil/ RST	Composite	ICP-AES/Sn(21)/PR	1150 (4 C) (1)	P0020-SS06	07/08/2015 11:49	
P0020-SS06-0106-01	MBCSY1	Soil/ RST	Composite	ICP-AES/Sn(21)/PR	1151 (4 C) (1)	P0020-SS06	07/08/2015 11:49	
P0020-SS06-0612-01	MBCSY2	Soil/ RST	Composite	ICP-AES/Sn(21)/PR	1152 (4 C) (1)	P0020-SS06	07/08/2015 11:49	
P0020-SS06-1224-01	MBCSY3	Soil/ RST	Composite	ICP-AES/Sn(21)/PR	1153 (4 C) (1)	P0020-SS06	07/08/2015 11:50	
P0020-SS05-0001-01	MBCSY4	Soil/ RST	Composite	ICP-AES/Sn(21)/PR	1154 (4 C) (1)	P0020-SS05	07/08/2015 12:33	
P0020-SS05-0106-01	MBCSY5	Soil/ RST	Composite	ICP-AES/Sn(21)/PR	1155 (4 C) (1)	P0020-SS05	07/08/2015 12:33	
P0020-SS05-0612-01	MBCSY6	Soil/ RST	Composite	ICP-AES/Sn(21)/PR	1156 (4 C) (1)	P0020-SS05	07/08/2015 12:34	
P0020-SS05-1224-01	MBCSY7	Soil/ RST	Composite	ICP-AES/Sn(21)/PR	1157 (4 C) (1)	P0020-SS05	07/08/2015 12:34	

Special Instructions: Analyses via ICP-AES for CLP TAL Metals + Tin, 21 Days Preliminary Results, Standard Turn-Around-Time

Analysis Key: ICP-AES/Sn=CLP TAL Total Metals/ICP-AES + Sn

Shipment for Case Complete? N
 Samples Transferred From Chain of Custody #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
As Sampled	 (wscorn)	7/9/15			

USEPA CLP Inorganics COC (LAB COPY)

Date Shipped: 7/10/2015

Carrier Name: Hand-Delivered

Cooler #: 1

CHAIN OF CUSTODY RECORD

Case #: 45418

Contact Name: Peter Lisichenko


Contact Phone: 603-512-4350

No: 2-070915-111836-0020

Lab: ChemTech Consulting Group

Lab Contact: Divya Mehta

Lab Phone: 908-789-8900


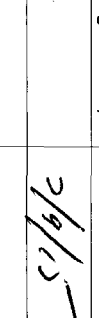
Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
RB-150708	MBCT04	Water/ RST	Grab	ICP-AES/Sn(21)/PR	1174 (HNO3 pH<2) (1)	N/A	07/08/2015 16:30	
P0020-SS03-0001-01	MBCT05	Soil/ RST	Composite	ICP-AES/Sn(21)/PR	1175 (4 C) (1)	P0020-SS03	07/09/2015 09:43	
P0020-SS03-0106-01	MBCT06	Soil/ RST	Composite	ICP-AES/Sn(21)/PR	1176 (4 C) (1)	P0020-SS03	07/09/2015 09:43	
P0020-SS03-0612-01	MBCT07	Soil/ RST	Composite	ICP-AES/Sn(21)/PR	1177 (4 C) (1)	P0020-SS03	07/09/2015 09:43	
P0020-SS03-1224-01	MBCT08	Soil/ RST	Composite	ICP-AES/Sn(21)/PR	1178 (4 C) (1)	P0020-SS03	07/09/2015 09:43	
P0020-SS04-0001-01	MBCT09	Soil/ RST	Composite	ICP-AES/Sn(21)/PR	1179 (4 C) (1)	P0020-SS04	07/09/2015 07:48	
P0020-SS04-0106-01	MBCT10	Soil/ RST	Composite	ICP-AES/Sn(21)/PR	1180 (4 C) (1)	P0020-SS04	07/09/2015 07:49	
P0020-SS04-0612-01	MBCT11	Soil/ RST	Composite	ICP-AES/Sn(21)/PR	1181 (4 C) (1)	P0020-SS04	07/09/2015 07:49	
P0020-SS04-1224-01	MBCT12	Soil/ RST	Composite	ICP-AES/Sn(21)/PR	1182 (4 C) (1)	P0020-SS04	07/09/2015 07:49	
								

Special Instructions: Analyses via ICP-AES for CLP TAL Metals + Tin, 21 Days Preliminary Results, Standard Turn-Around-Time

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: ICP-AES/Sn=CLP TAL Total Metals/ICP-AES + Sn

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All samples		7/9/15			
All metals					

USEPA CLP Inorganics COC (LAB COPY)

Date Shipped: 7/10/2015

Carrier Name: Hand-Delivered

Cooler #: 2

CHAIN OF CUSTODY RECORD

Case #: 45418

Contact Name: Peter Lisichenko

Contact Phone: 603-512-4350

No: 2-070915-113001-0021

Lab: ChemTech Consulting Group

Lab Contact: Divya Mehta

Lab Phone: 908-789-8900


Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
P0020-SS08-0001-01	MBCSX1	Soil/ RST	Composite	ICP-AES/Sn(21)/PR	1141 (4 C) (1)	P0020-SS08	07/08/2015 10:40	
P0020-SS08-0106-01	MBCSX2	Soil/ RST	Composite	ICP-AES/Sn(21)/PR	1142 (4 C) (1)	P0020-SS08	07/08/2015 10:41	
P0020-SS08-0612-01	MBCSX3	Soil/ RST	Composite	ICP-AES/Sn(21)/PR	1143 (4 C) (1)	P0020-SS08	07/08/2015 10:41	
P0020-SS08-1224-01	MBCSX4	Soil/ RST	Composite	ICP-AES/Sn(21)/PR	1144 (4 C) (1)	P0020-SS08	07/08/2015 10:41	
P0020-SS14-0001-01	MBCSY8	Soil/ RST	Composite	ICP-AES/Sn(21)/PR	1158 (4 C) (1)	P0020-SS14	07/08/2015 13:27	
P0020-SS14-0106-01	MBCSY9	Soil/ RST	Composite	ICP-AES/Sn(21)/PR	1159 (4 C) (1)	P0020-SS14	07/08/2015 13:28	
P0020-SS14-0612-01	MBCSZ0	Soil/ RST	Composite	ICP-AES/Sn(21)/PR	1160 (4 C) (1)	P0020-SS14	07/08/2015 13:28	
P0020-SS14-1224-01	MBCSZ1	Soil/ RST	Composite	ICP-AES/Sn(21)/PR	1161 (4 C) (1)	P0020-SS14	07/08/2015 13:28	
P0020-SS13-0001-01	MBCSZ2	Soil/ RST	Composite	ICP-AES/Sn(21)/PR	1162 (4 C) (1)	P0020-SS13	07/08/2015 14:13	
P0020-SS13-0106-01	MBCSZ3	Soil/ RST	Composite	ICP-AES/Sn(21)/PR	1163 (4 C) (1)	P0020-SS13	07/08/2015 14:14	
P0020-SS13-0612-01	MBCSZ4	Soil/ RST	Composite	ICP-AES/Sn(21)/PR	1164 (4 C) (1)	P0020-SS13	07/08/2015 14:14	

Special Instructions: Analyses via ICP-AES for CLP TAL Metals + Tin, 21 Days Preliminary Results, Standard Turn-Around-Time

Analysis Key: ICP-AES/Sn=CLP TAL Total Metals/ICP-AES + Sn

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES		7/9/15			

USEPA CLP Inorganics COC (LAB COPY)

CHAIN OF CUSTODY RECORD

No: 2-070915-113001-0021

DateShipped: 7/10/2015

Case #: 45418

Lab: ChemTech Consulting Group

CarrierName: Hand-Delivered

Contact Name: Peter Lisichenko

Lab Contact: Divya Menha

Cooler #: 2

Contact Phone: 603-512-4350

Lab Phone: 908-789-8900

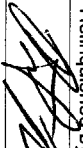
Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
P0020-SS13-1224-01	MBCSZ5	Soil/ RST	Composite	ICP-AES/Sn(21)/PR	1165 (4 C) (1)	P0020-SS13	07/08/2015 14:14	
P0020-SS12-0001-01	MBCSZ6	Soil/ RST	Composite	ICP-AES/Sn(21)/PR	1166 (4 C) (1)	P0020-SS12	07/08/2015 14:51	
P0020-SS12-0106-01	MBCSZ7	Soil/ RST	Composite	ICP-AES/Sn(21)/PR	1167 (4 C) (1)	P0020-SS12	07/08/2015 14:51	
P0020-SS12-0612-01	MBCSZ8	Soil/ RST	Composite	ICP-AES/Sn(21)/PR	1168 (4 C) (1)	P0020-SS12	07/08/2015 14:51	
P0020-SS12-1224-01	MBCSZ9	Soil/ RST	Composite	ICP-AES/Sn(21)/PR	1169 (4 C) (1)	P0020-SS12	07/08/2015 14:51	
P0020-SS11-0001-01	MBC100	Soil/ RST	Composite	ICP-AES/Sn(21)/PR	1170 (4 C) (1)	P0020-SS11	07/08/2015 15:52	
P0020-SS11-0106-01	MBC101	Soil/ RST	Composite	ICP-AES/Sn(21)/PR	1171 (4 C) (1)	P0020-SS11	07/08/2015 15:52	
P0020-SS11-0612-01	MBC102	Soil/ RST	Composite	ICP-AES/Sn(21)/PR	1172 (4 C) (1)	P0020-SS11	07/08/2015 15:53	
P0020-SS11-1224-01	MBC103	Soil/ RST	Composite	ICP-AES/Sn(21)/PR	1173 (4 C) (1)	P0020-SS11	07/08/2015 15:53	
P0020-SS09-0001-01	MBC113	Soil/ RST	Composite	ICP-AES/Sn(21)/PR	1183 (4 C) (1)	P0020-SS09	07/09/2015 09:33	
P0020-SS09-0106-01	MBC114	Soil/ RST	Composite	ICP-AES/Sn(21)/PR	1184 (4 C) (1)	P0020-SS09	07/09/2015 09:33	

Special Instructions: Analyses via ICP-AES for CLP T.AL Metals + Tin, 21 Days Preliminary Results, Standard Turn-Around-Time

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: ICP-AES/Sn=CLP T.AL Total Metals/ICP-AES + Sn

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All Samples All Metals	 (Wesley) 7/9/15	7/9/15			

USEPA CLP Inorganics COC (LAB COPY)

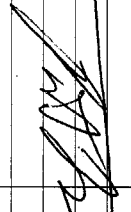
Date Shipped: 7/10/2015
 Carrier Name: Hand-Delivered
 Cooler #: 2

CHAIN OF CUSTODY RECORD

Case #: 45418
 Contact Name: Peter Lisichenko
 Contact Phone: 603-512-4350

No: 2-070915-113001-0021

Lab: ChemTech Consulting Group
 Lab Contact: Divya Mehta
 Lab Phone: 908-789-8900


Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
P0020-SS09-0612-01	MBCT15	Soil/ RST	Composite	ICP-AES/Sn(21)/PR	1185 (4 C) (1)	P0020-SS09	07/09/2015 09:33	
P0020-SS09-1224-01	MBCT16	Soil/ RST	Composite	ICP-AES/Sn(21)/PR	1186 (4 C) (1)	P0020-SS09	07/09/2015 09:33	
P0020-SS10-0001-01	MBCT17	Soil/ RST	Composite	ICP-AES/Sn(21)/PR	1187 (4 C) (1)	P0020-SS10	07/09/2015 08:41	
P0020-SS10-0106-01	MBCT18	Soil/ RST	Composite	ICP-AES/Sn(21)/PR	1188 (4 C) (2)	P0020-SS10	07/09/2015 08:41	
P0020-SS10-0106-02	MBCT19	Soil/ RST	Composite	ICP-AES/Sn(21)/PR	1189 (4 C) (1)	P0020-SS10	07/09/2015 08:41	
P0020-SS10-0612-01	MBCT20	Soil/ RST	Composite	ICP-AES/Sn(21)/PR	1190 (4 C) (1)	P0020-SS10	07/09/2015 08:41	
P0020-SS10-1224-01	MBCT21	Soil/ RST	Composite	ICP-AES/Sn(21)/PR	1191 (4 C) (1)	P0020-SS10	07/09/2015 08:41	
RB-150709	MBCT22	Water/ RST	Grab	ICP-AES/Sn(21)/PR	1192 (HNO3 pH<2) (1)	N/A	07/09/2015 10:15	
								

Sample(s) to be used for Lab QC: P0020-SS10-0106-01 Tag 1188 - Special Instructions: Analyses via ICP-AES for CLP TAL Metals + Tin, 21 Days Preliminary Results, Standard Turn-Around-Time

Shipment for Case Complete? **N**

Samples Transferred From Chain of Custody #

Analysis Key: ICP-AES/Sn=CLP TAL Total Metals/ICP-AES + Sn

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSES	 (Lab/Client)	7/9/15			

ATTACHMENT D

Photographic Documentation log

Photographic Documentation Log
Lumen Bearing Company Offsite Assessment
Buffalo, Erie County, New York
June 30 – July 9, 2015



Photograph 1: Front yard area of residence with maintained flower beds and bare soil.



Photograph 2: Backyard grass area with pin flags denoting sample location.

Photographic Documentation Log
Lumen Bearing Company Offsite Assessment
Buffalo, Erie County, New York
June 30 – July 9, 2015



Photograph 3: Residential vegetable garden, for consumable produce, situated in historic on-site soils.



Photograph 4: Residential vegetable garden, for consumable produce, situated in historic on-site soils.

Photographic Documentation Log
Lumen Bearing Company Offsite Assessment
Buffalo, Erie County, New York
June 30 – July 9, 2015



Photograph 5: Children play area situated in areas of patchy grass cover and bare soil.



Photograph 6: Backyard area of residential structure. Tomato plants in exposed soil line the edge of the stockade fence.

Photographic Documentation Log
Lumen Bearing Company Offsite Assessment
Buffalo, Erie County, New York
June 30 – July 9, 2015



Photograph 7: Backyard area of residential structure with patchy vegetative cover.



Photograph 8: Urban chicken coop situated in area with bare historic soils. Area used to raise chickens for production of eggs for consumption by resident.